



**SUPERIOR**  
Black Lick, Pa.  
Mercer, Pa.  
Wooster, Oh.  
Cleveland, Ok.  
Trinidad, Co.

# COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.  
Well Golden Eagle 30-03  
Field Purgatoire River  
County Las Animas State Colorado

Location: API # : 05 071 09347 00

1281' FNL & 2711' FWL

SEC 30 TWP 33S RGE 67W

Permanent Datum Ground Level Elevation 7250'  
Log Measured From Ground Level  
Drilling Measured From Ground Level

Elevation

K.B. -----  
D.F. -----  
G.L. 7250'

Date 8-01-07

Run Number One

Depth Driller 1900'

Depth Logger 1894'

Bottom Logged Interval 1877'

Top Log Interval Surface Casing

Casing Driller 8 5/8" @ 496'

Casing Logger 496'

Bit Size 7 7/8"

Type Fluid in Hole Water

Density / Viscosity ///

pH / Fluid Loss ///

Source of Sample ///

Rm @ Meas. Temp ///

Rmf @ Meas. Temp ///

Rmc @ Meas. Temp ///

Source of Rmf / Rmc ///

Rm @ BHT ///

Time Circulation Stopped 3:30 P.M.

Time Logger on Bottom 5:00 P.M.

Maximum Recorded Temperature 95 DEG F

Equipment Number T697

Location Trinidad

Recorded By M. Norton

Witnessed By Mr. Don Johnson

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

## Comments

Density Neutron Porosity Presented On Sandstone Matrix.  
ABHV Calculated For 5 1/2" Casing  
Well Directions:  
Second Bosque entrance four miles after Weston,  
right on Apache Canyon, third drive thru location.



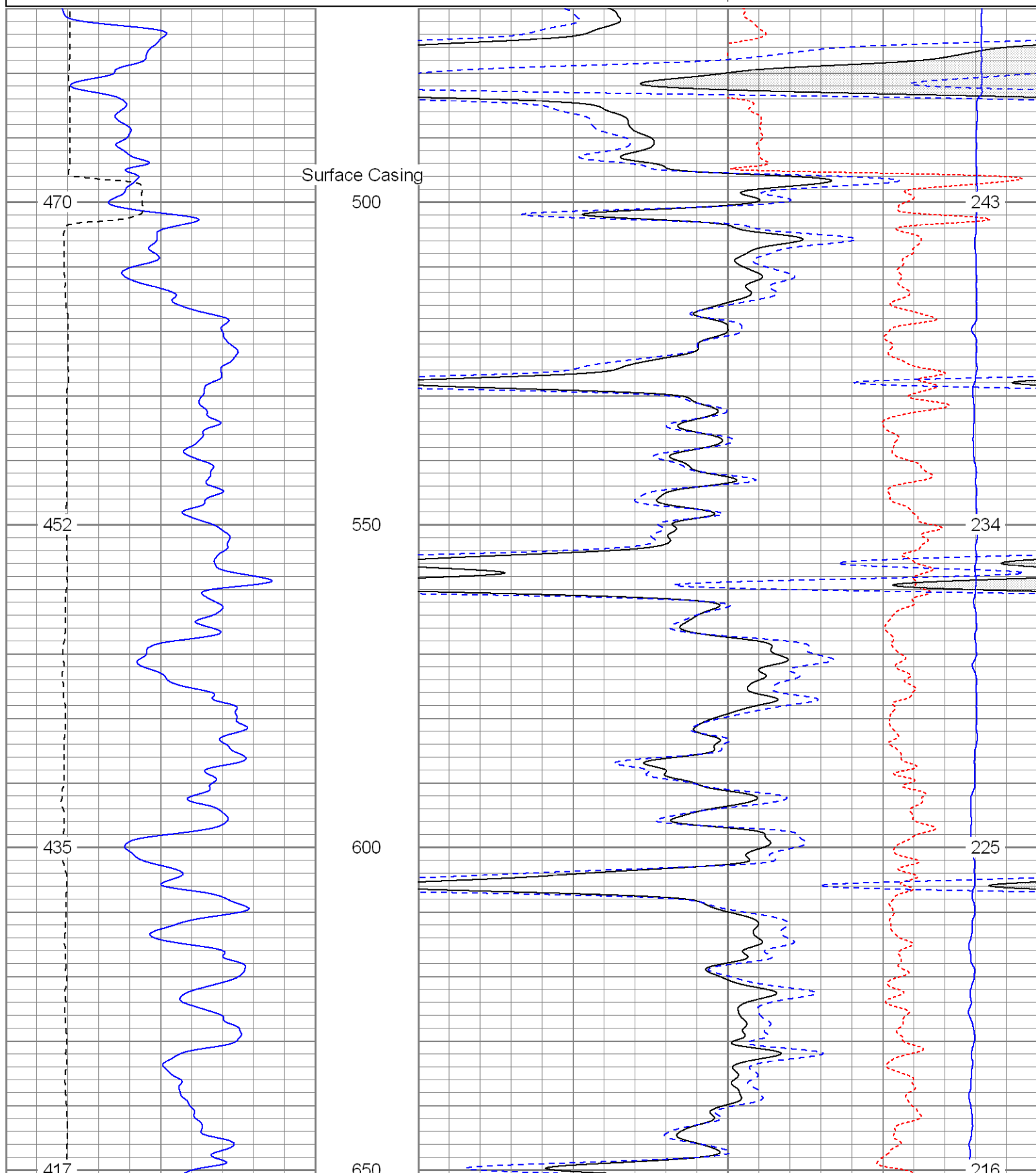
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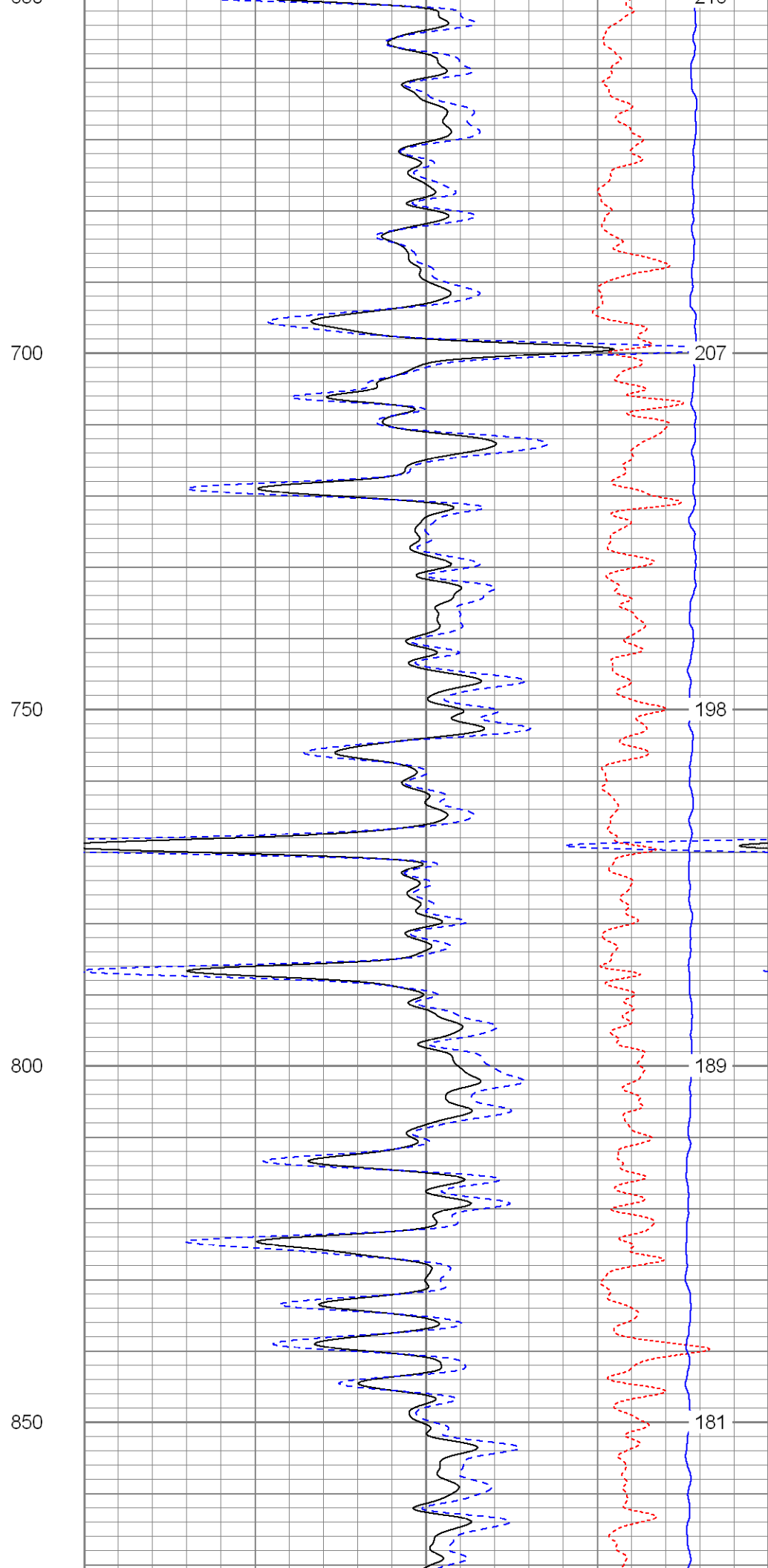
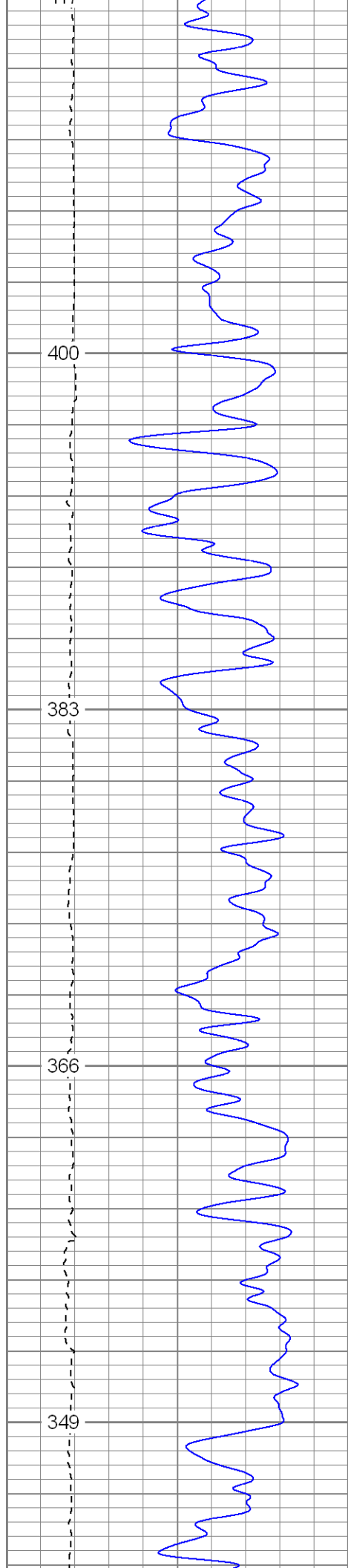
# Main Pass

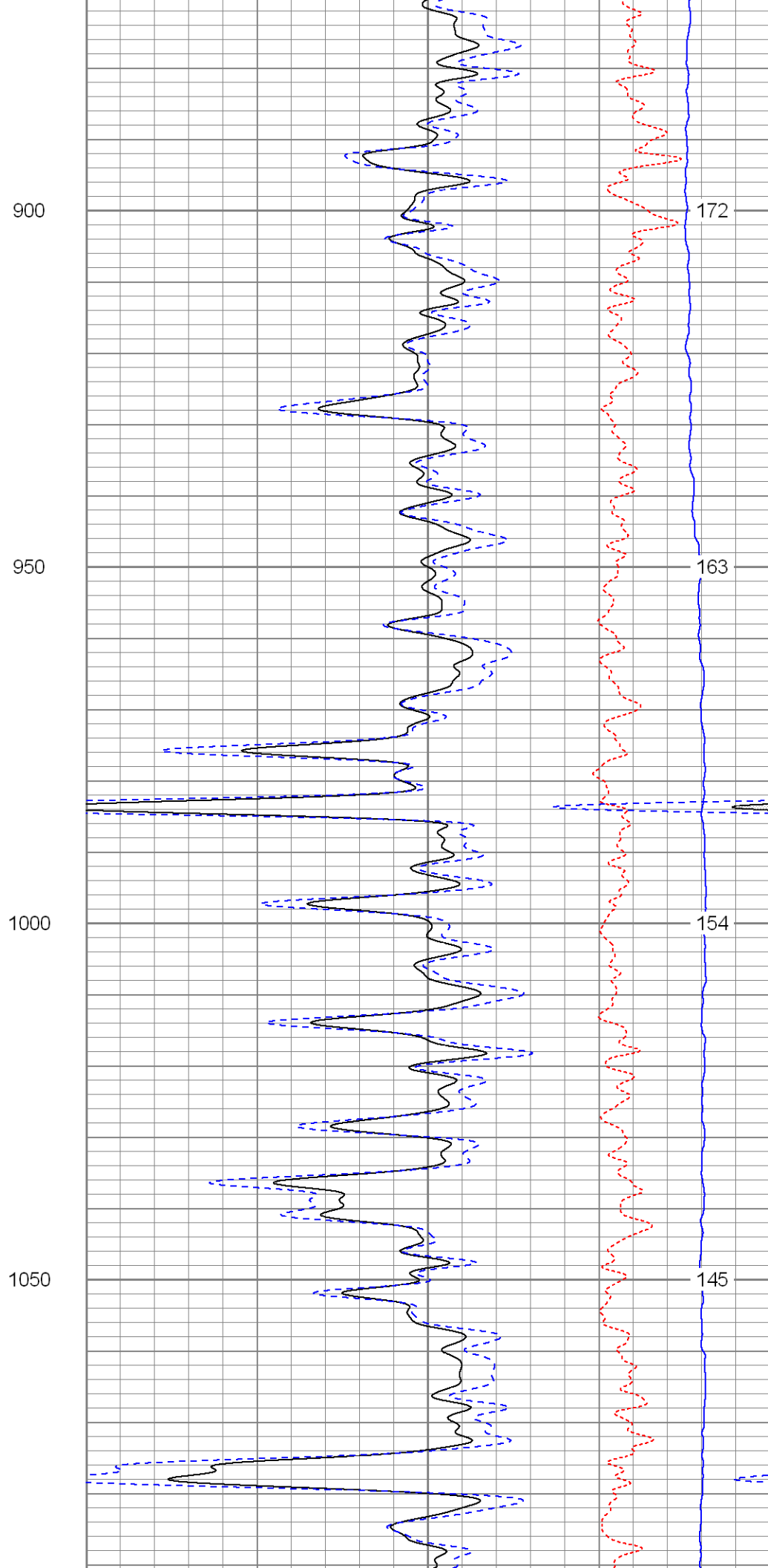
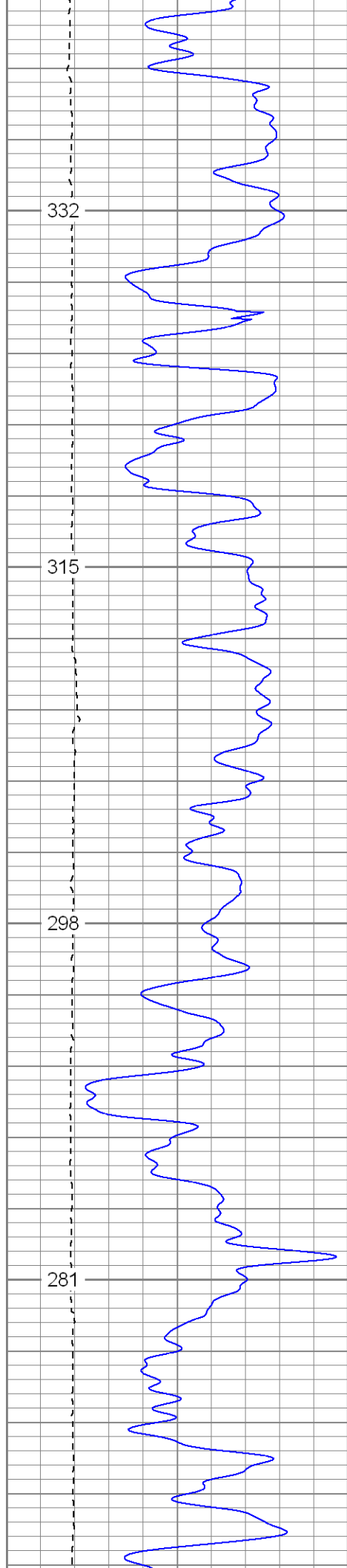
Database File: xtoge3003.db  
Dataset Pathname: pass2.1  
Presentation Format: cdl  
Dataset Creation: Wed Aug 01 18:14:12 2007 by Calc Open-Cased 061129  
Charted by: Depth in Feet scaled 1:240

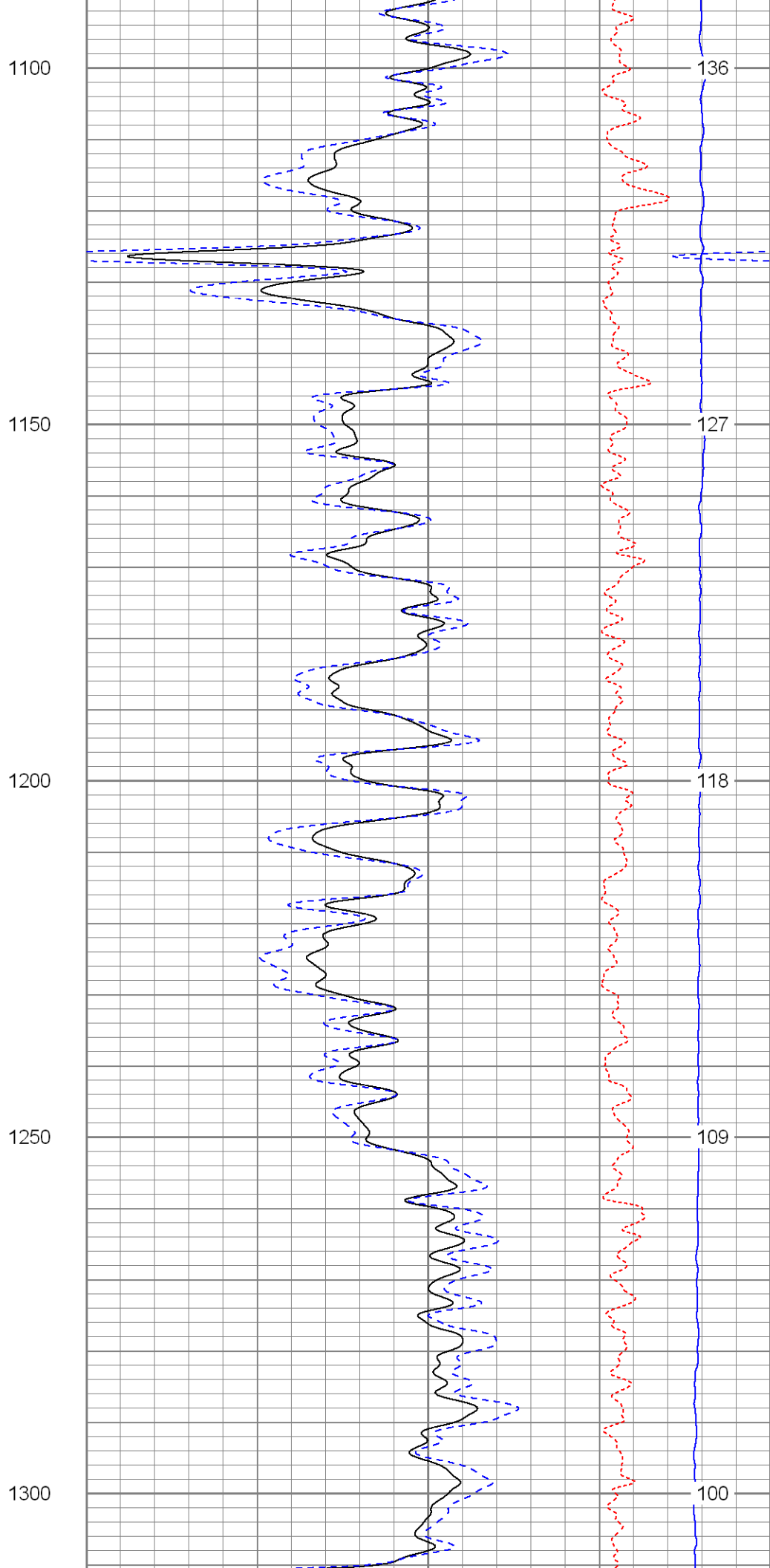
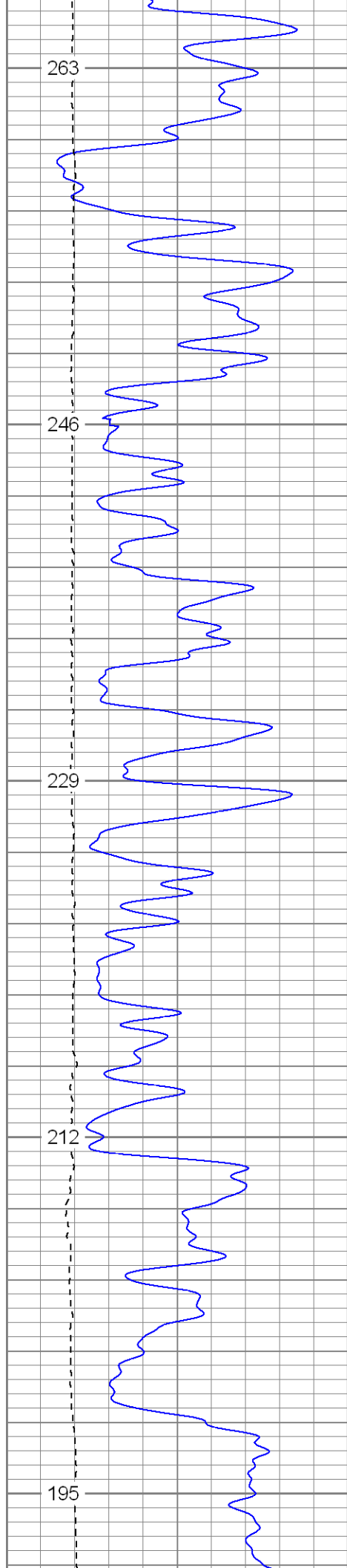
0	GR (GAPI)	200
6	DCAL (in)	16

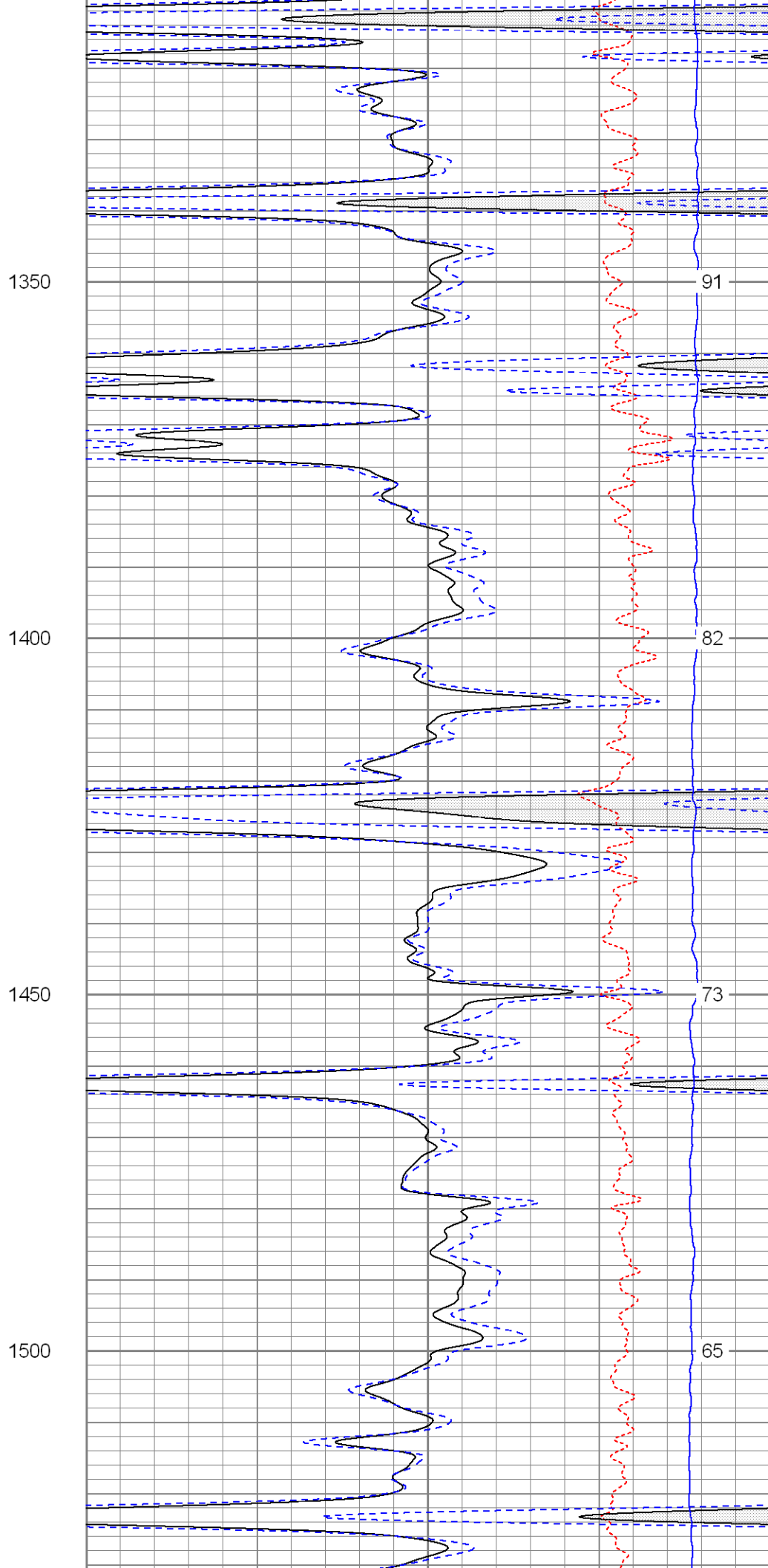
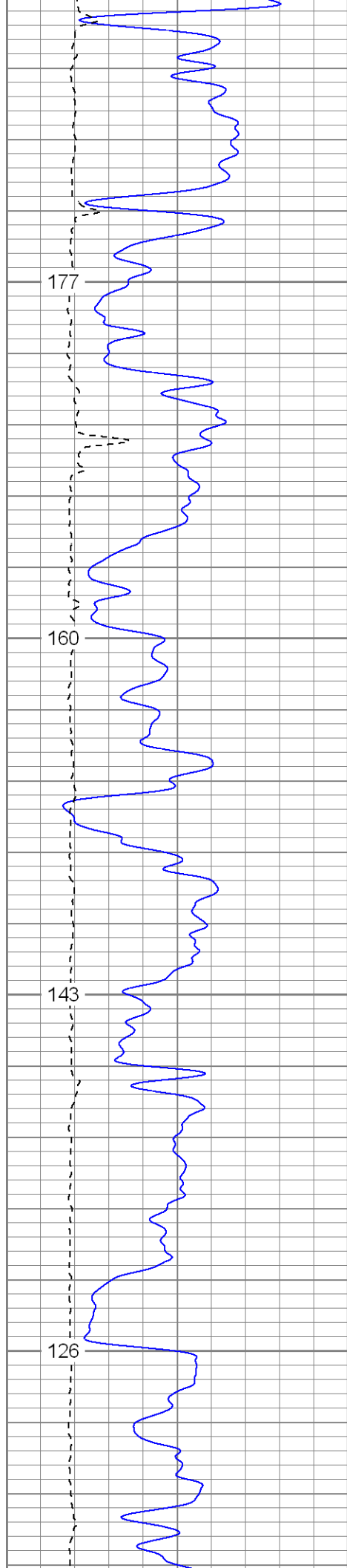
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

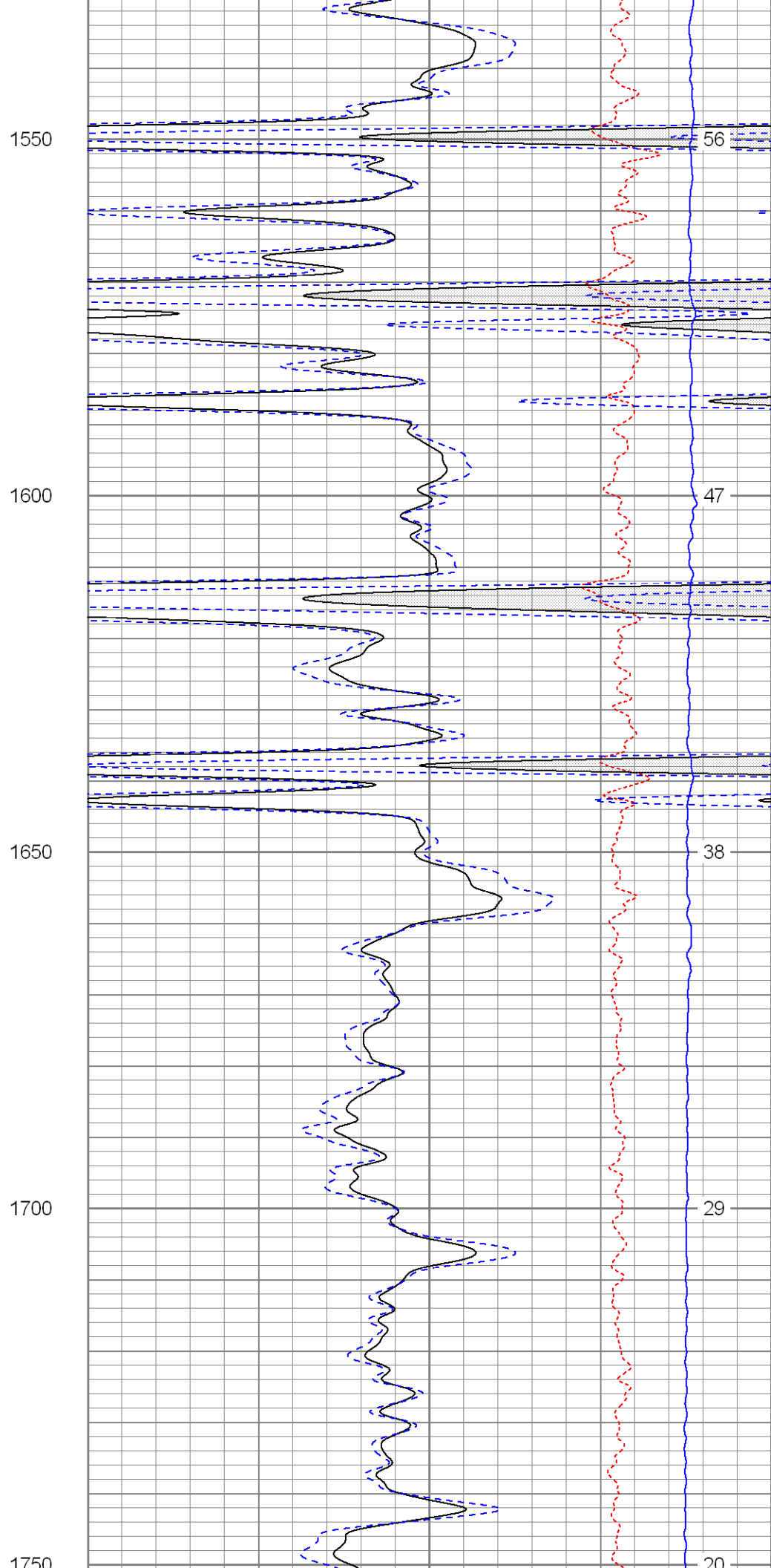
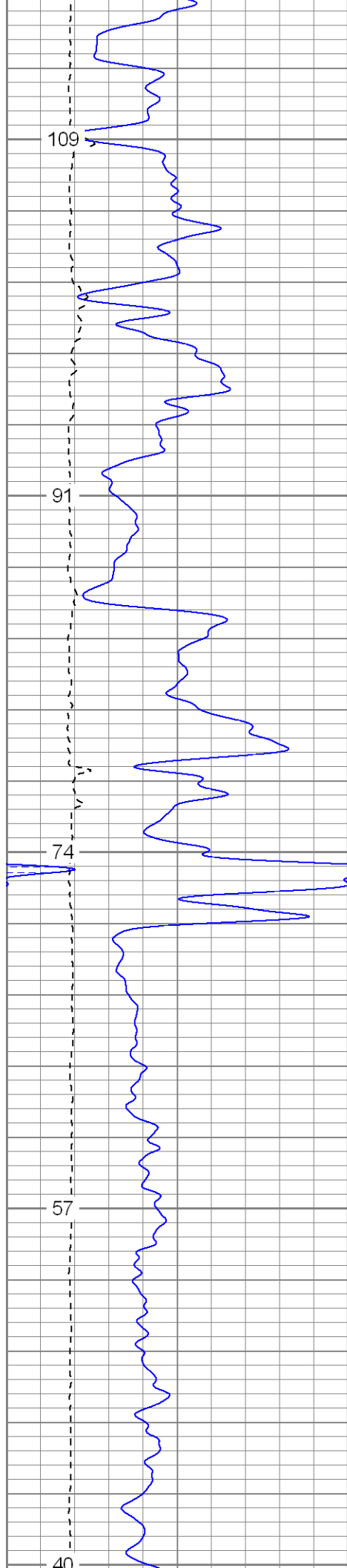


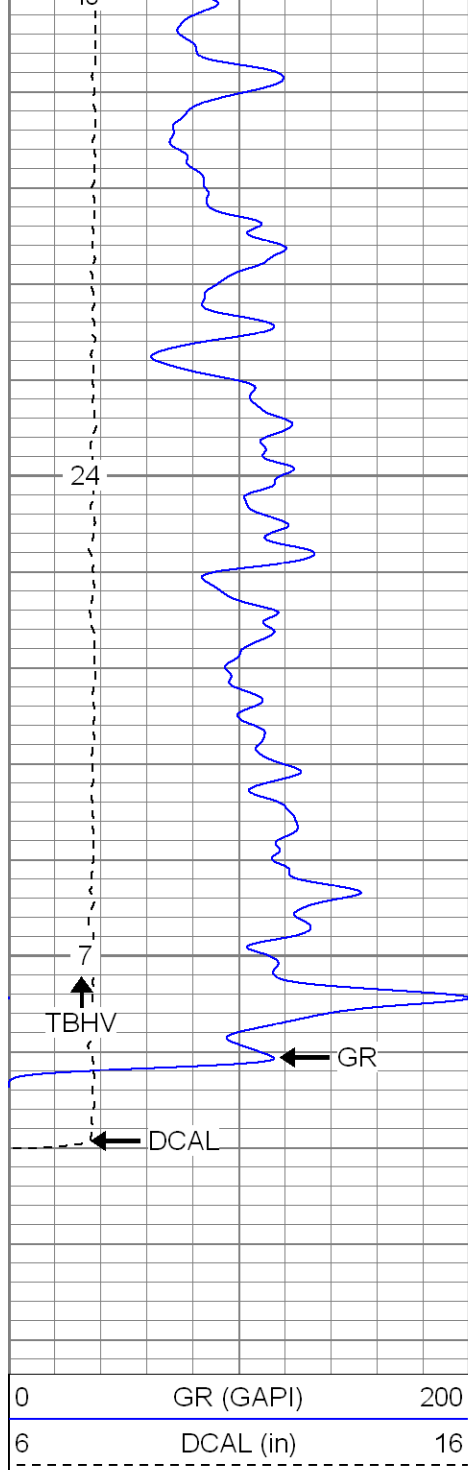




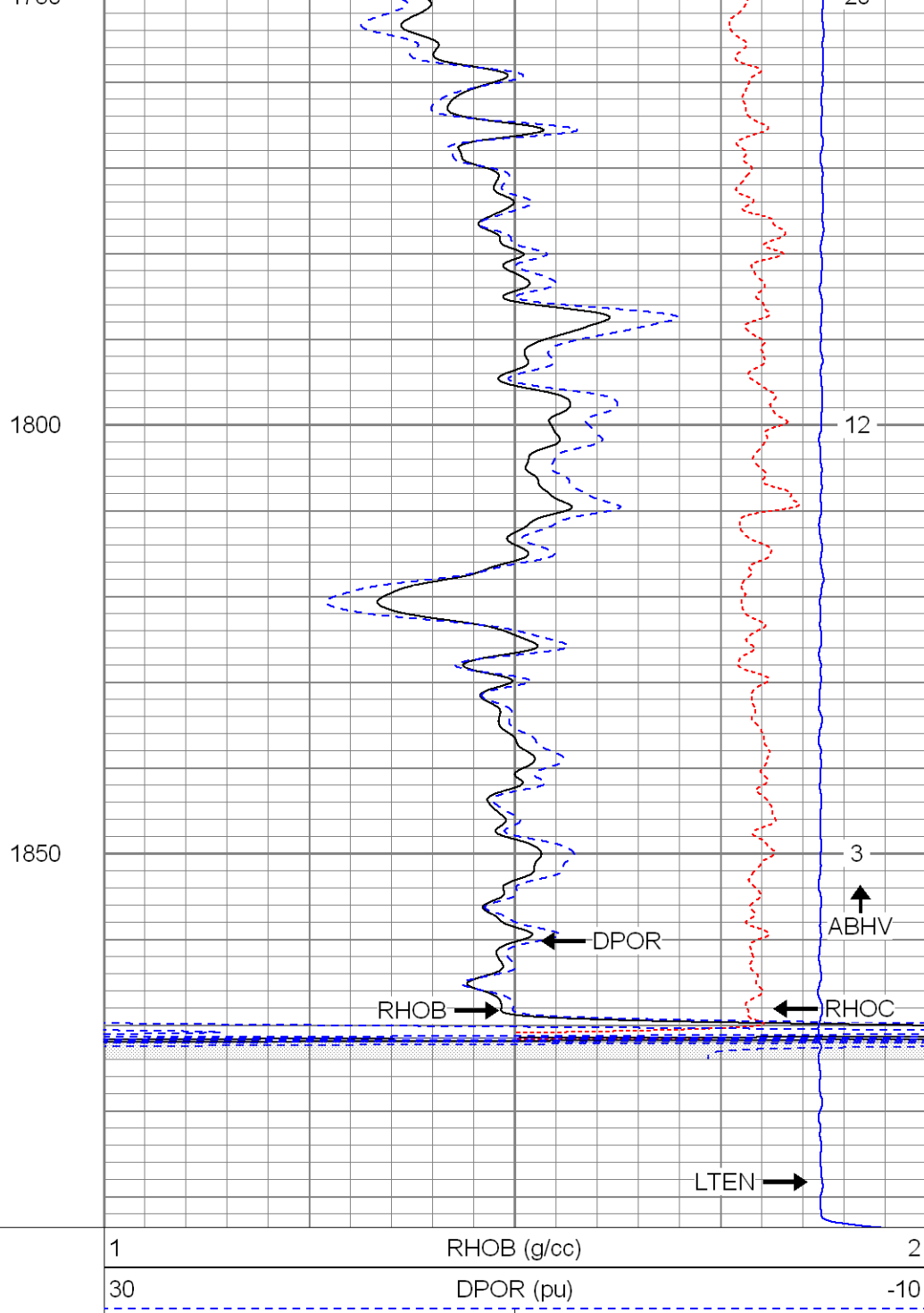








0	GR (GAPI)	200
6	DCAL (in)	16



1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0



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# Main Pass

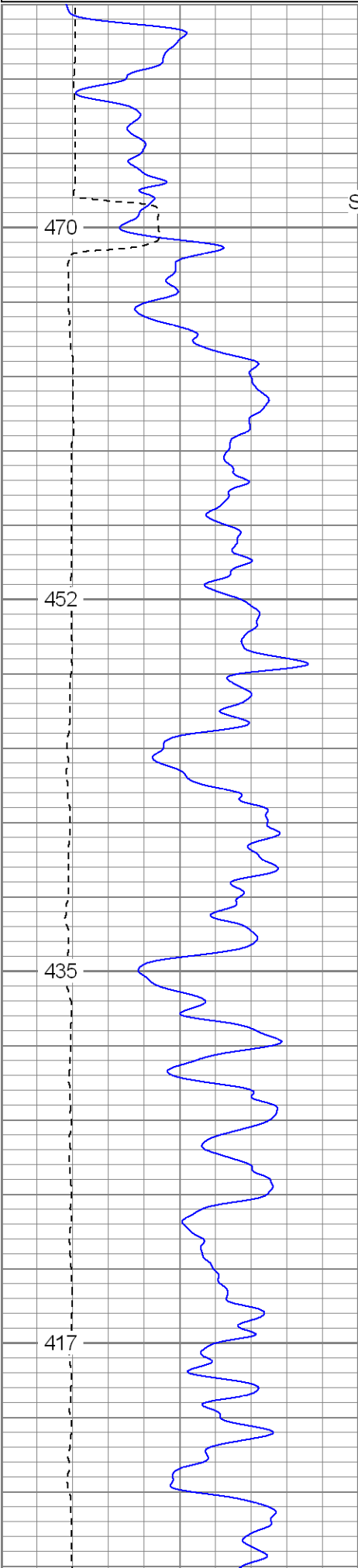
Database File: xtoge3003.db  
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0	GR (GAPI)	200
6	DCAL (in)	16

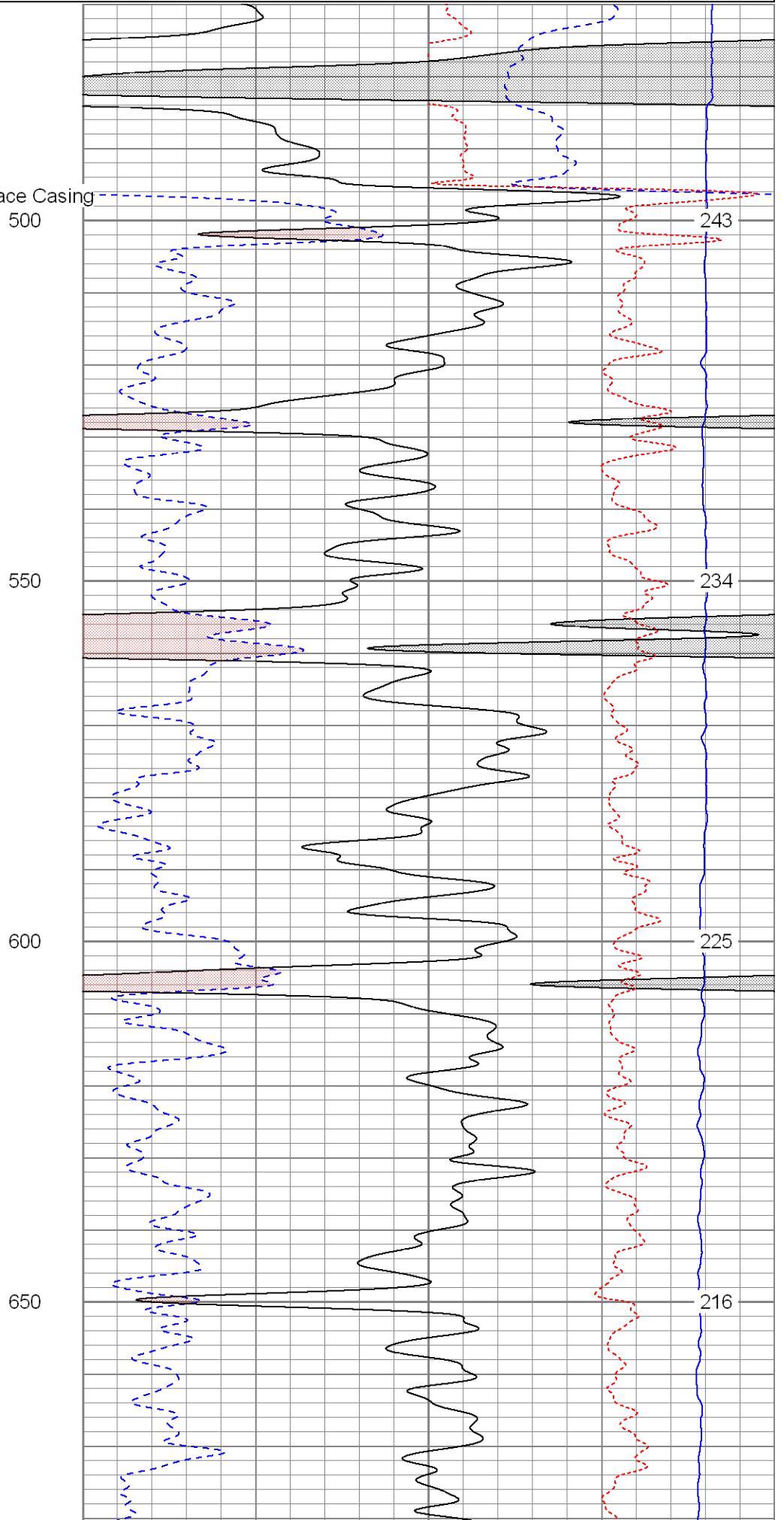
30	NPOR (pu)	-10
30	DPOR (pu)	-10

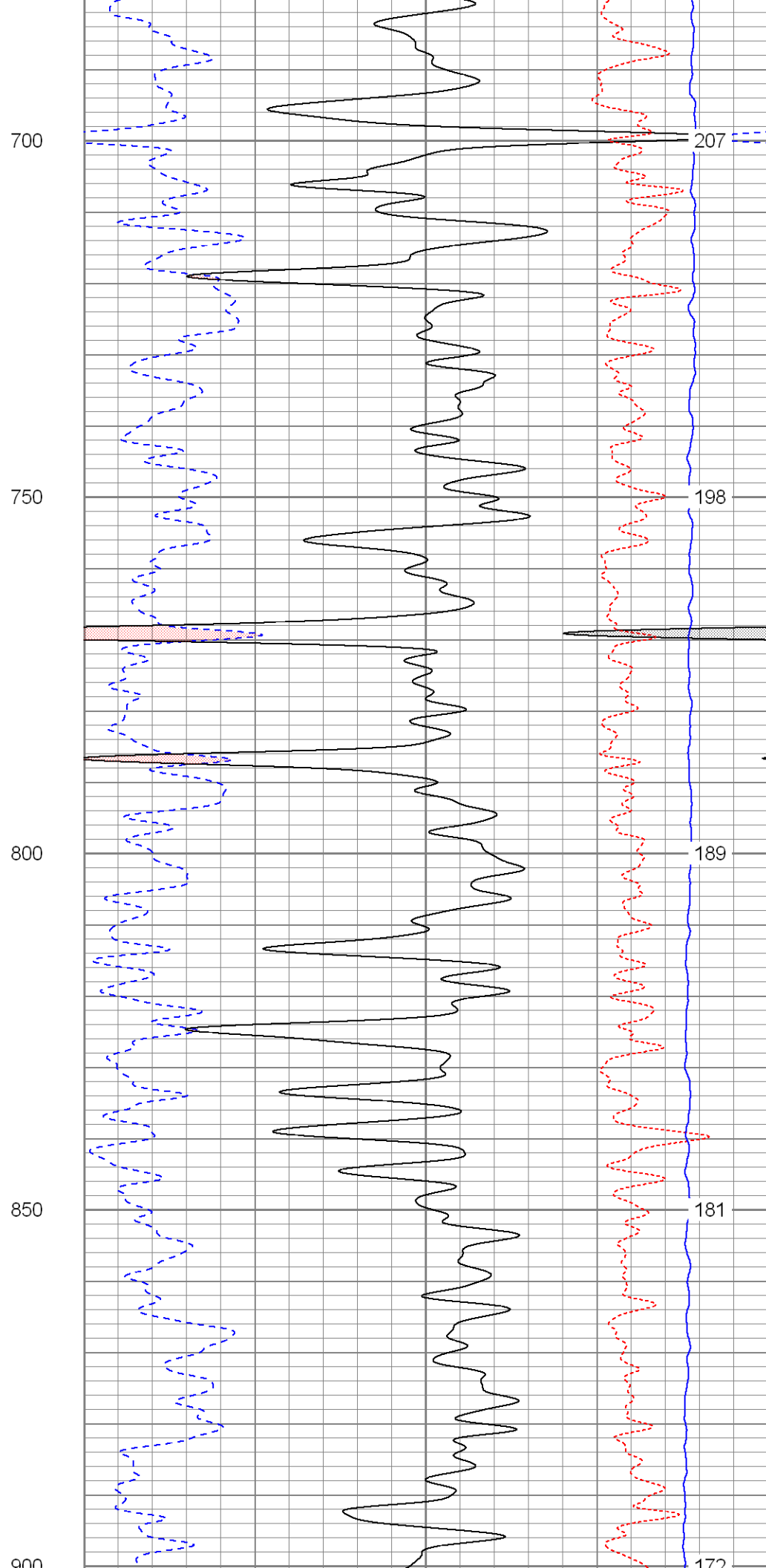
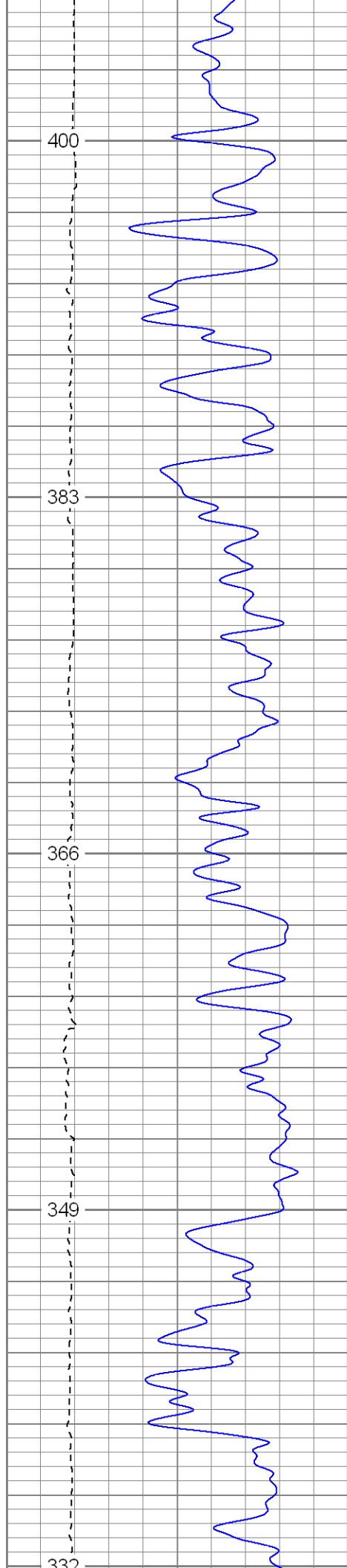


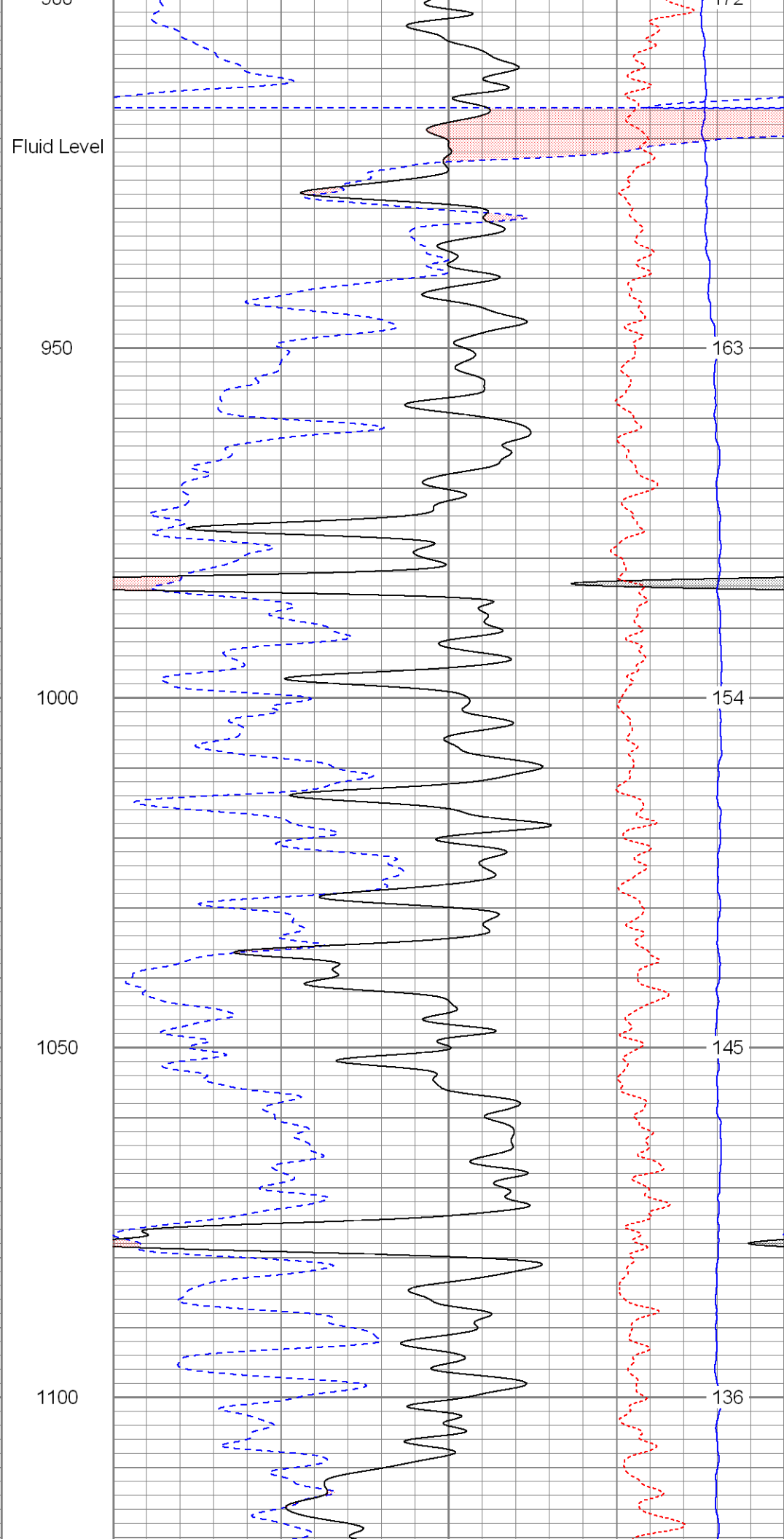
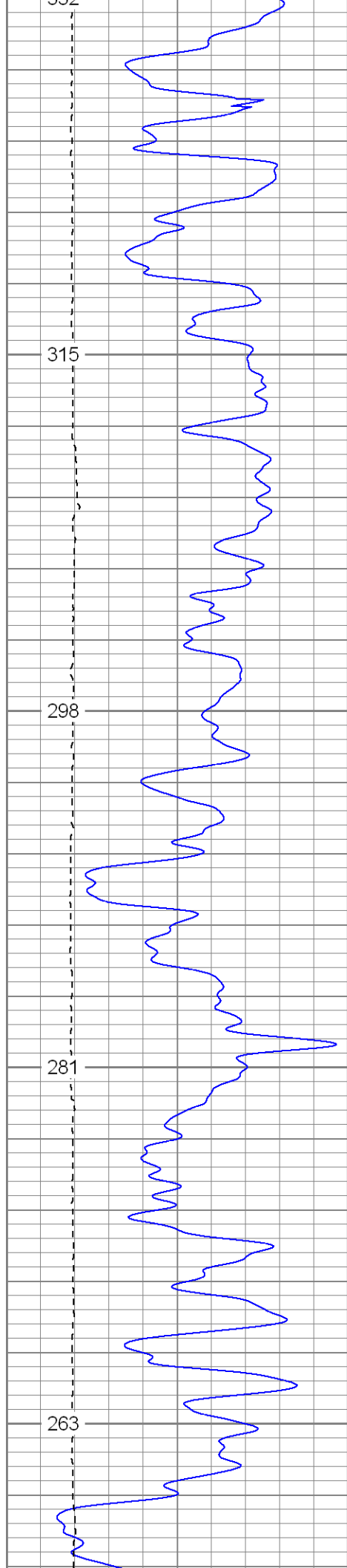
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

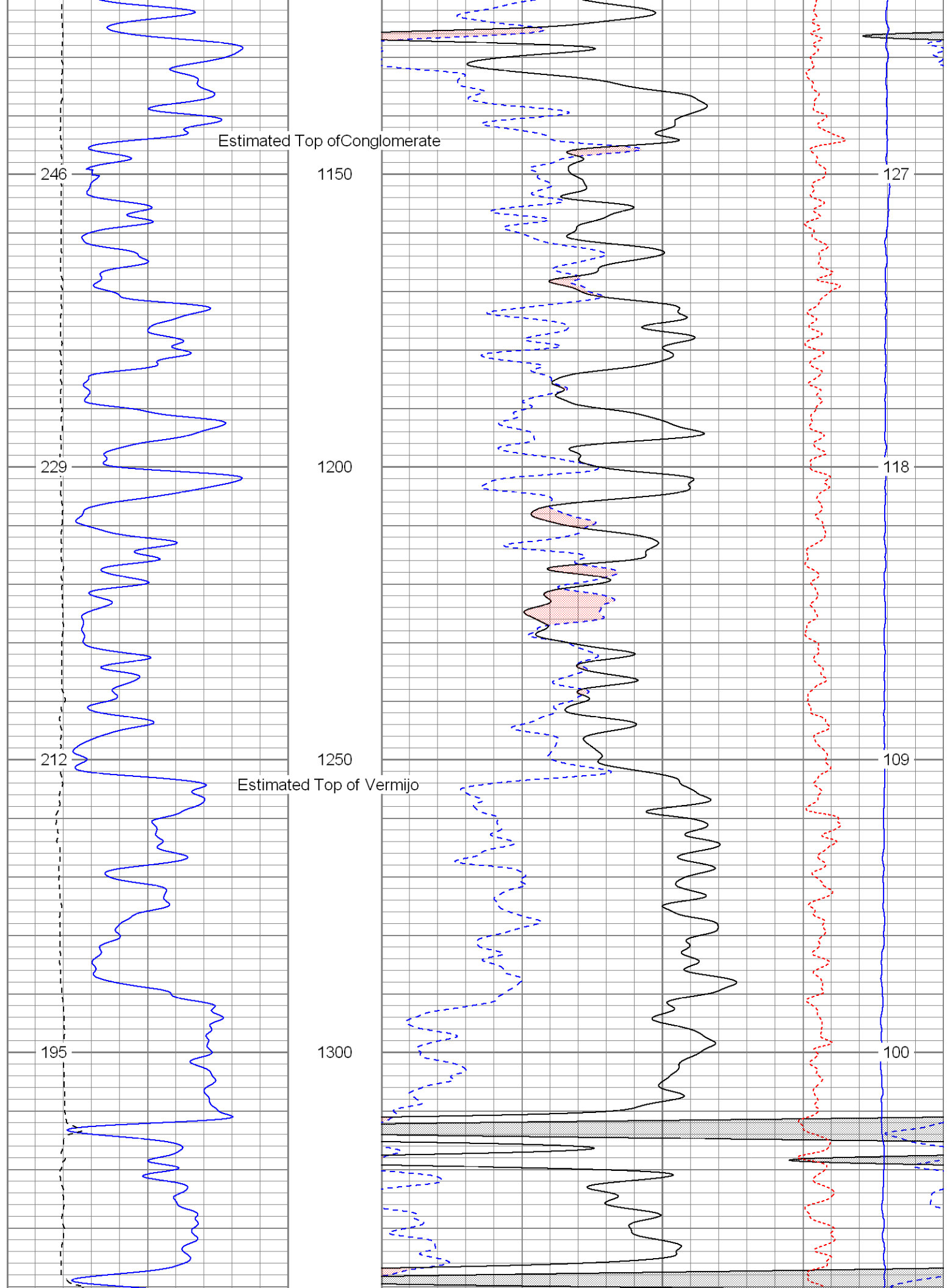


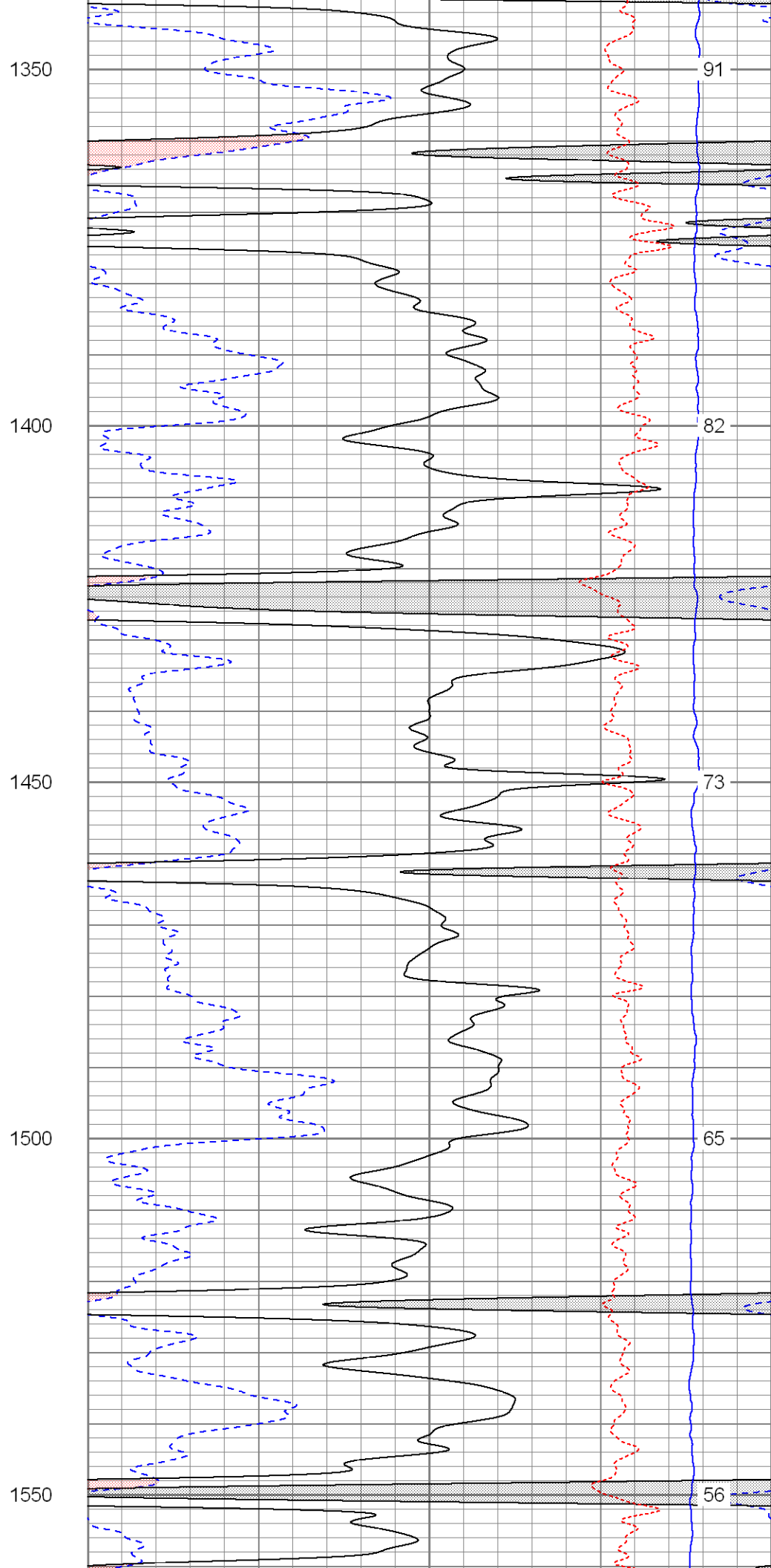
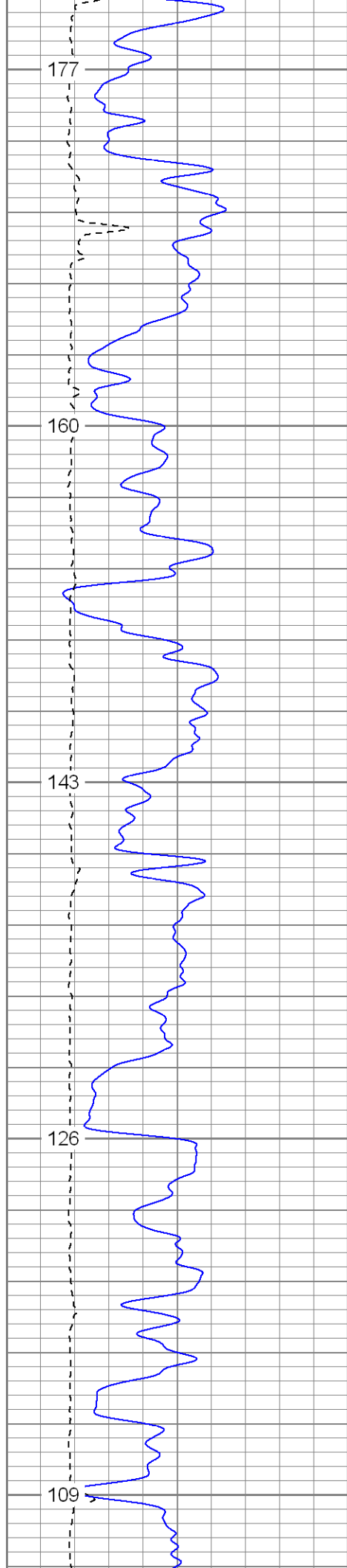
Surface Casing  
500

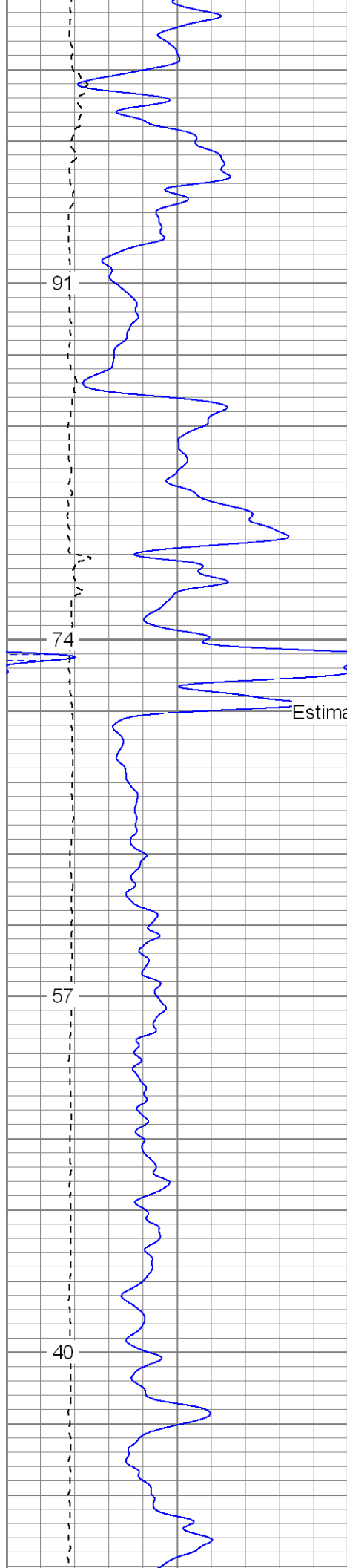












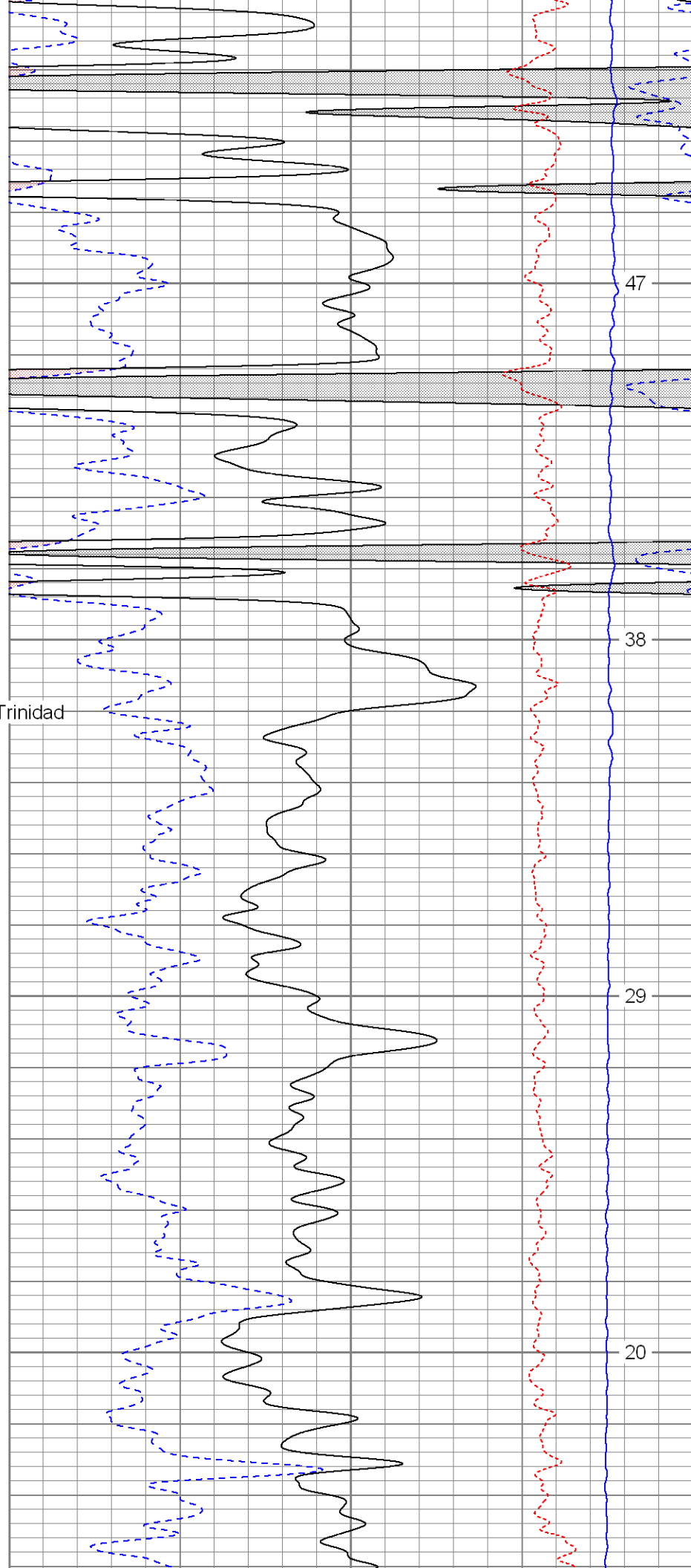
1600

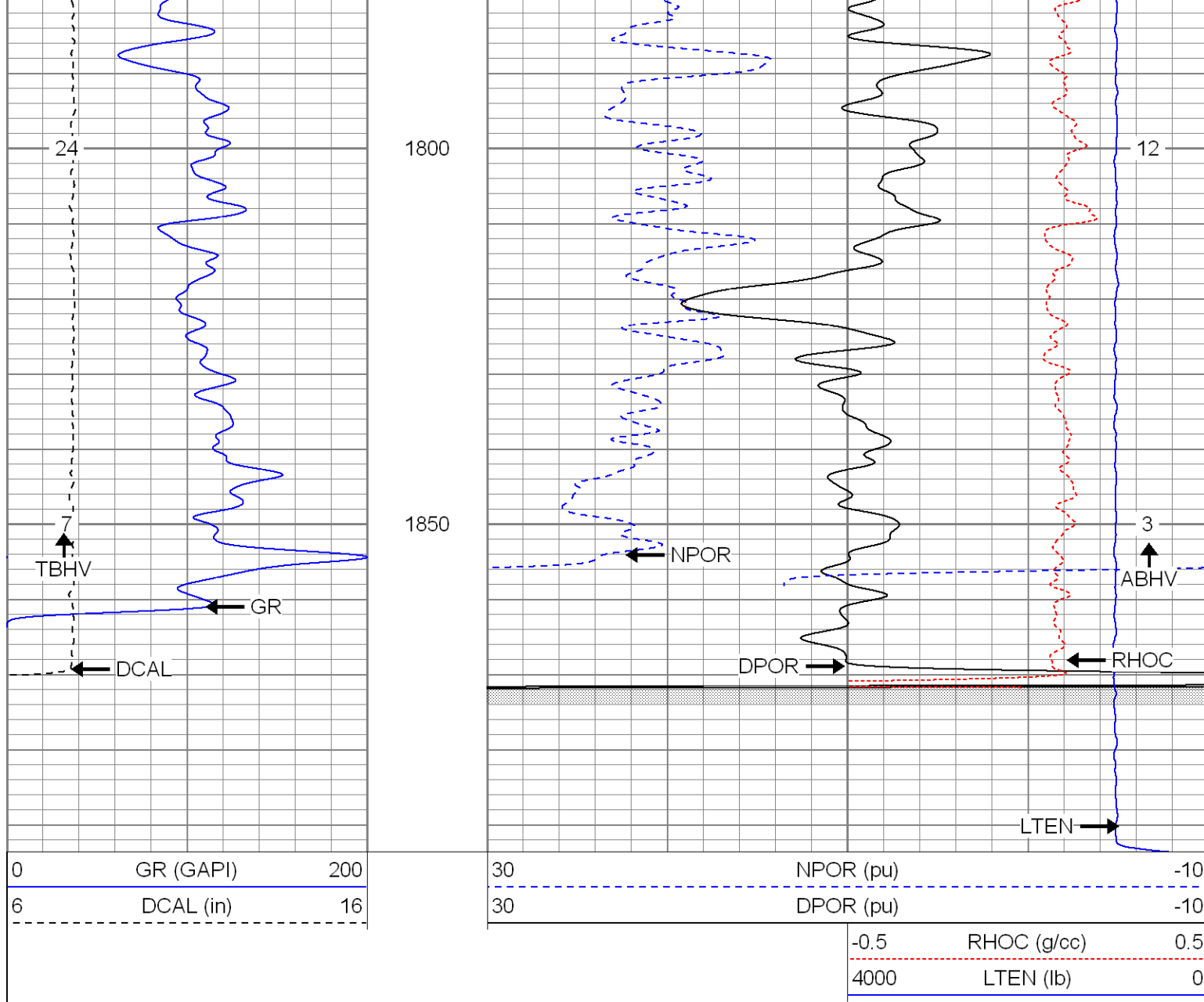
1650

1700

1750

Estimated Top of Trinidad





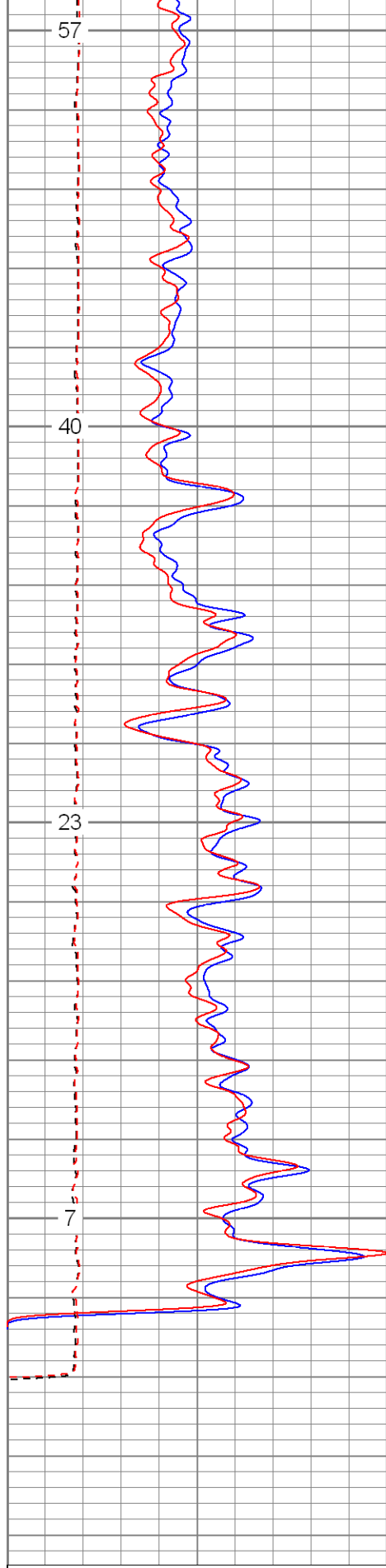
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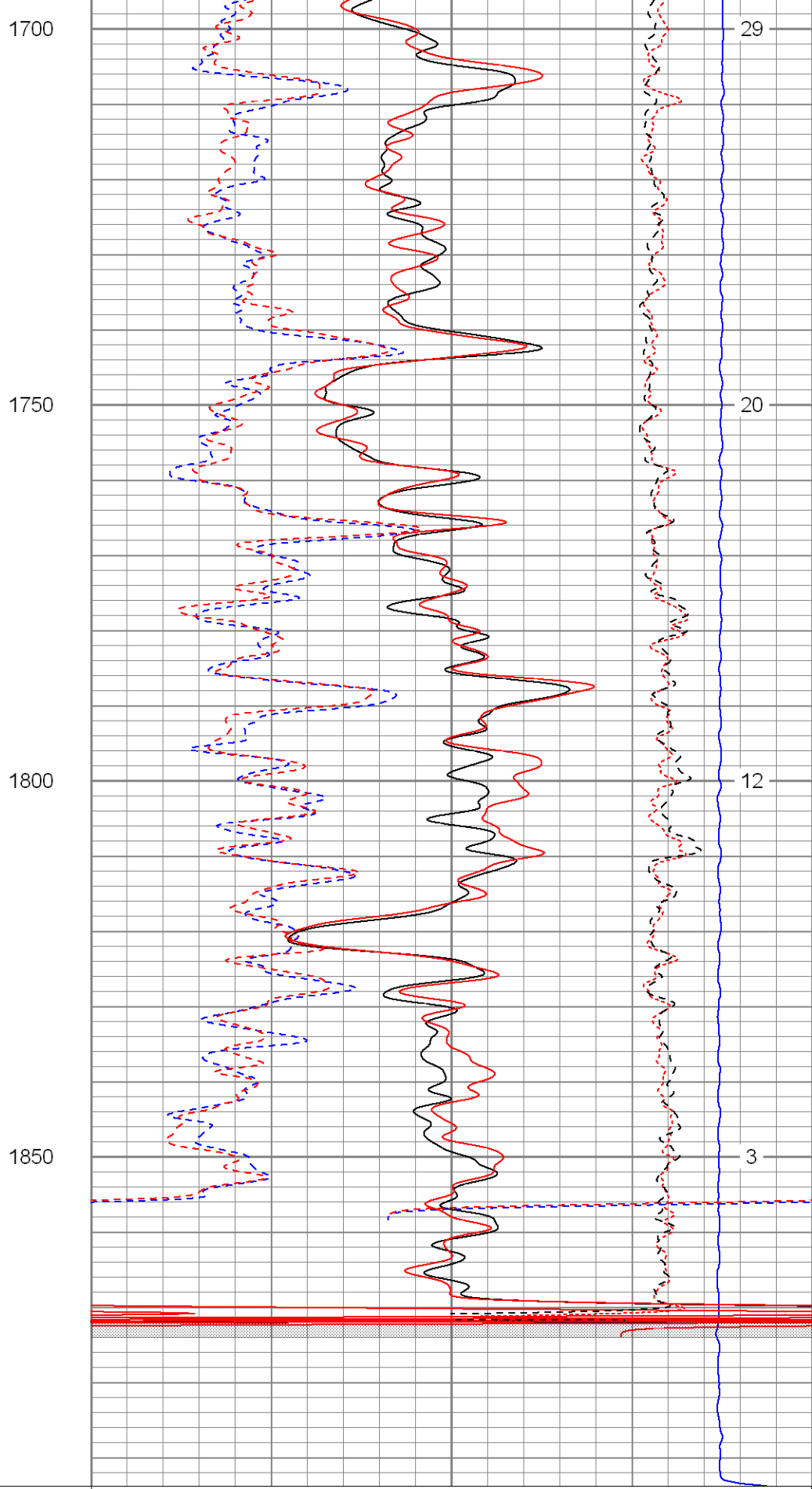
# Repeat Section

Database File: xtoge3003.db  
Dataset Pathname: pass1.1  
Presentation Format: cdnl  
Dataset Creation: Wed Aug 01 18:13:31 2007 by Calc Open-Cased 061129  
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
0	GR-repeat (GAPI)	200	30	NPOR-repeat (pu)	-10
6	DCAL-repeat (in)	16	30	DPOR-repeat (pu)	-10
			-0.5	RHOC (g/cc)	0.5
			4000	LTEN (lb)	0
			-0.5	RHOC-repeat (g/cc)	0.5



0	GR (GAPI)	200
6	DCAL (in)	16
0	GR-repeat (GAPI)	200
6	DCAL-repeat (in)	16



30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5



4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5



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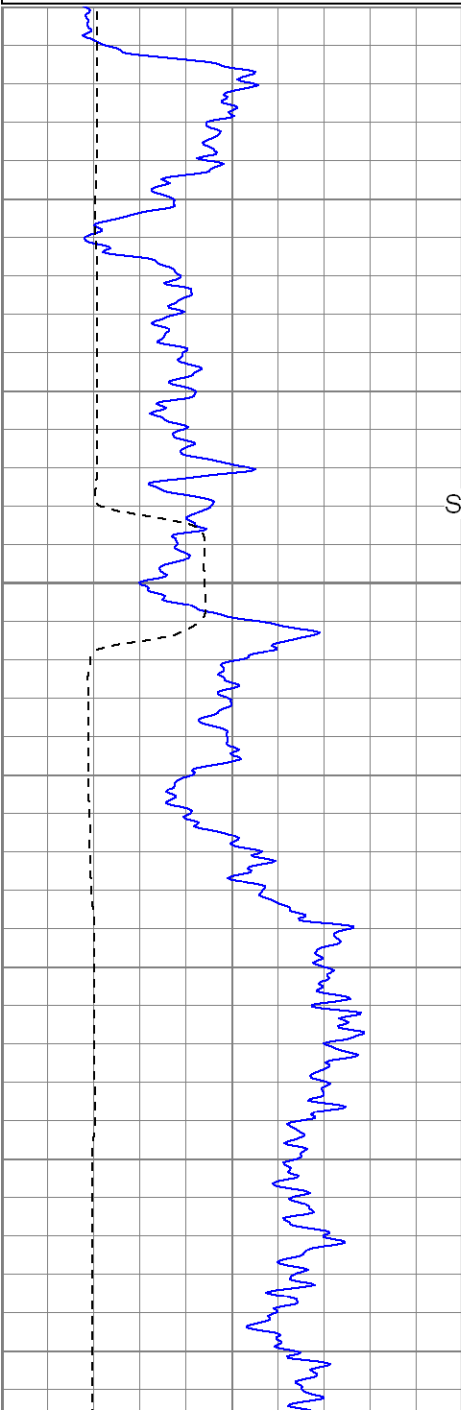
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# High Resolution Pass

Database File: xtoge3003.db  
Dataset Pathname: pass2.2  
Presentation Format: cdlhr  
Dataset Creation: Wed Aug 01 18:23:24 2007 by Calc Open-Cased 061129  
Charted by: Depth in Feet scaled 1:120

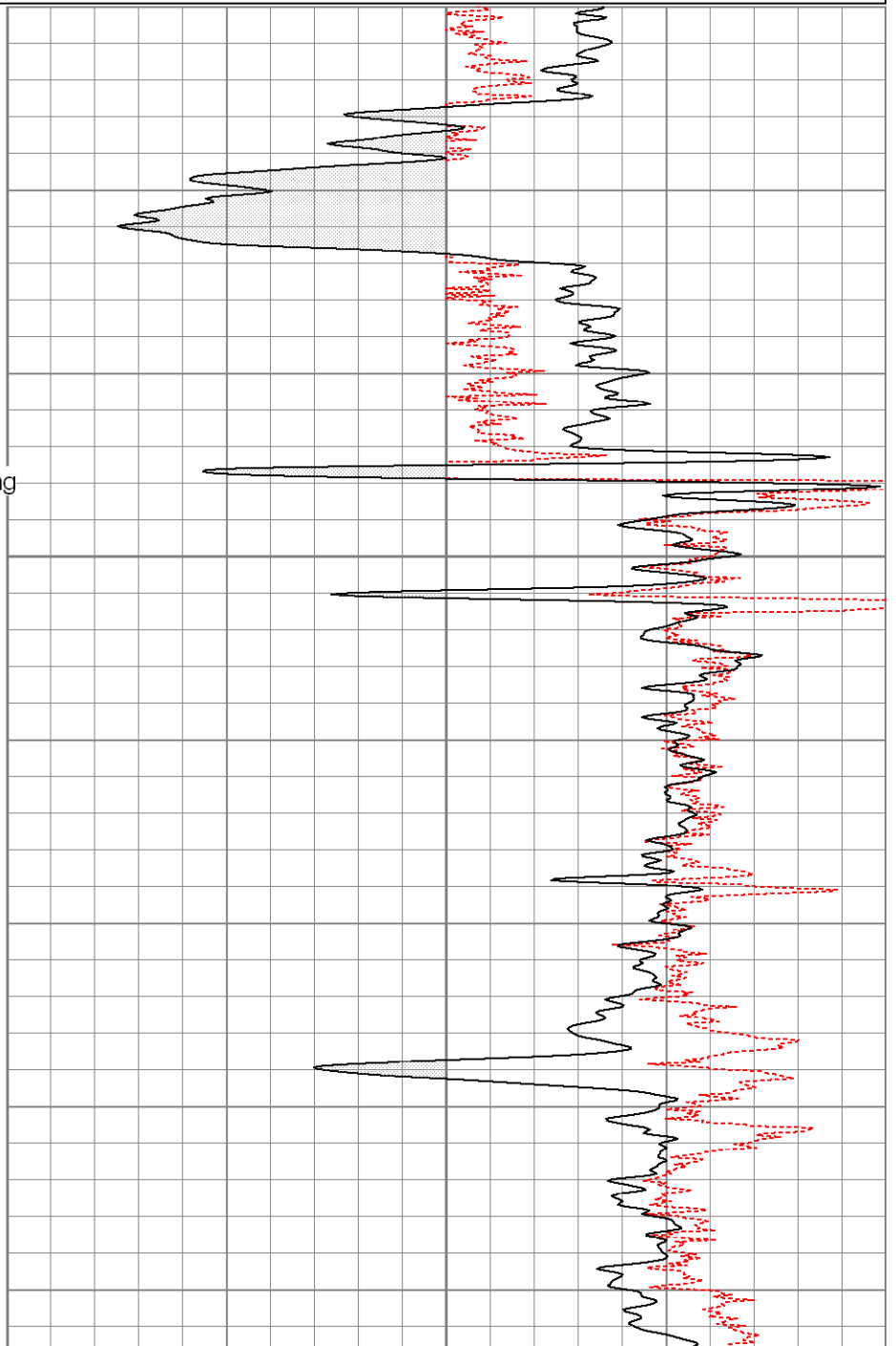
0	GR (GAPI)	200
6	DCAL (in)	16

1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5



Surface Casing

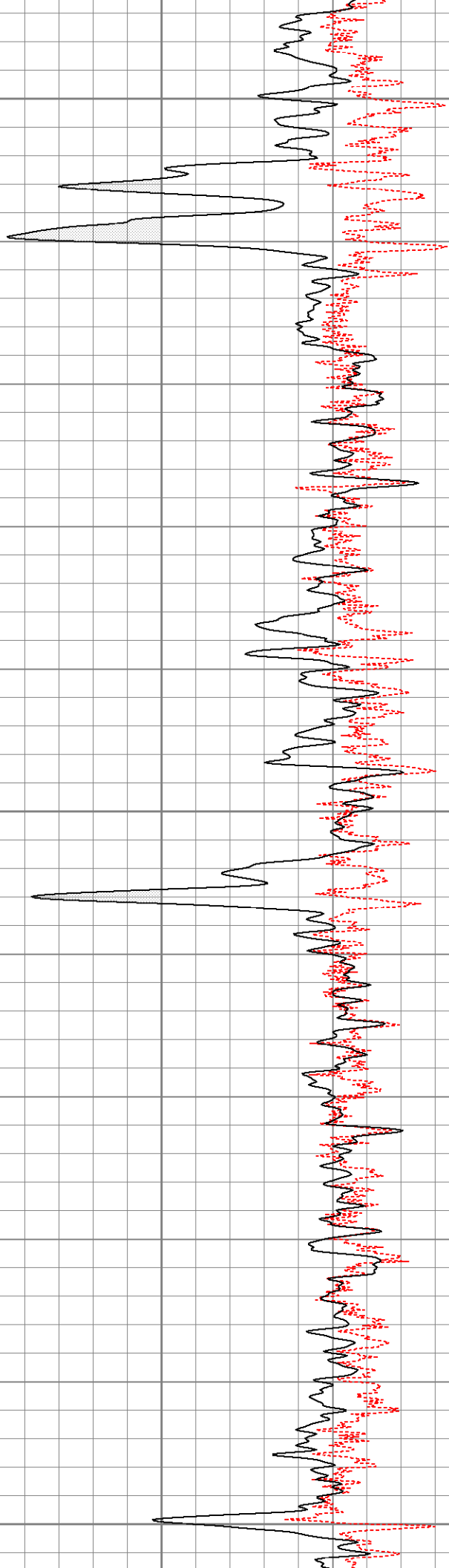
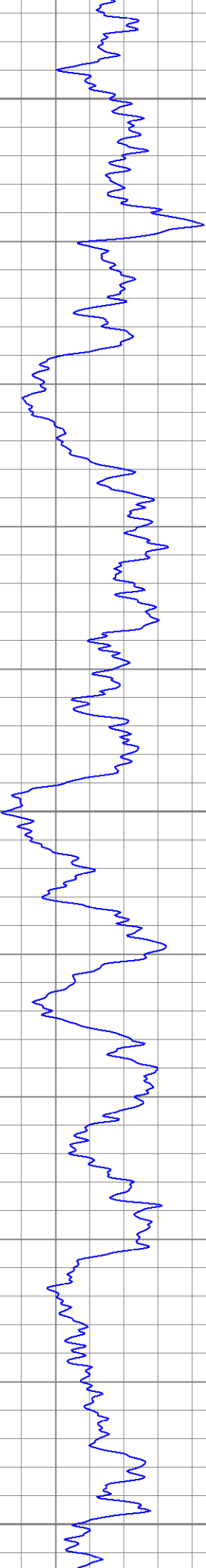
500

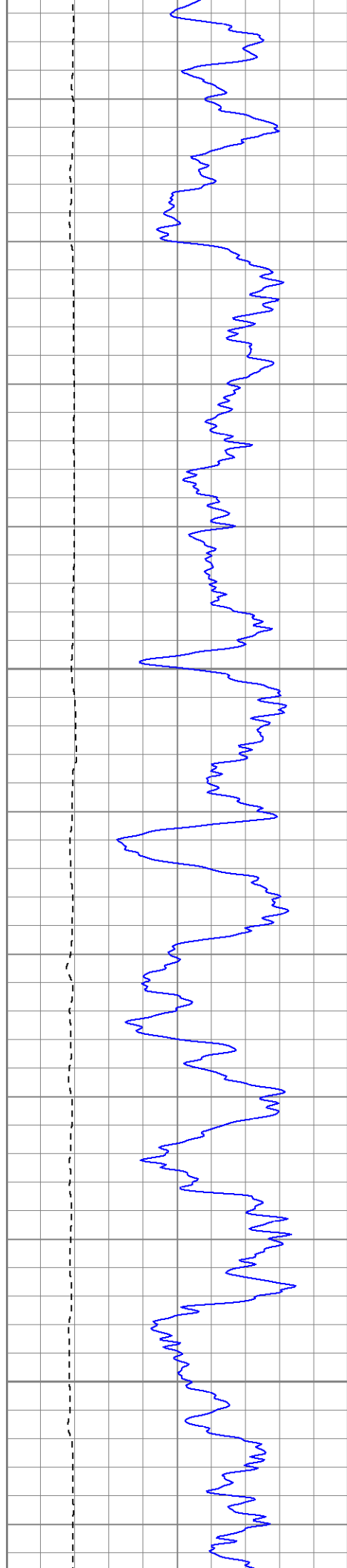


550

600

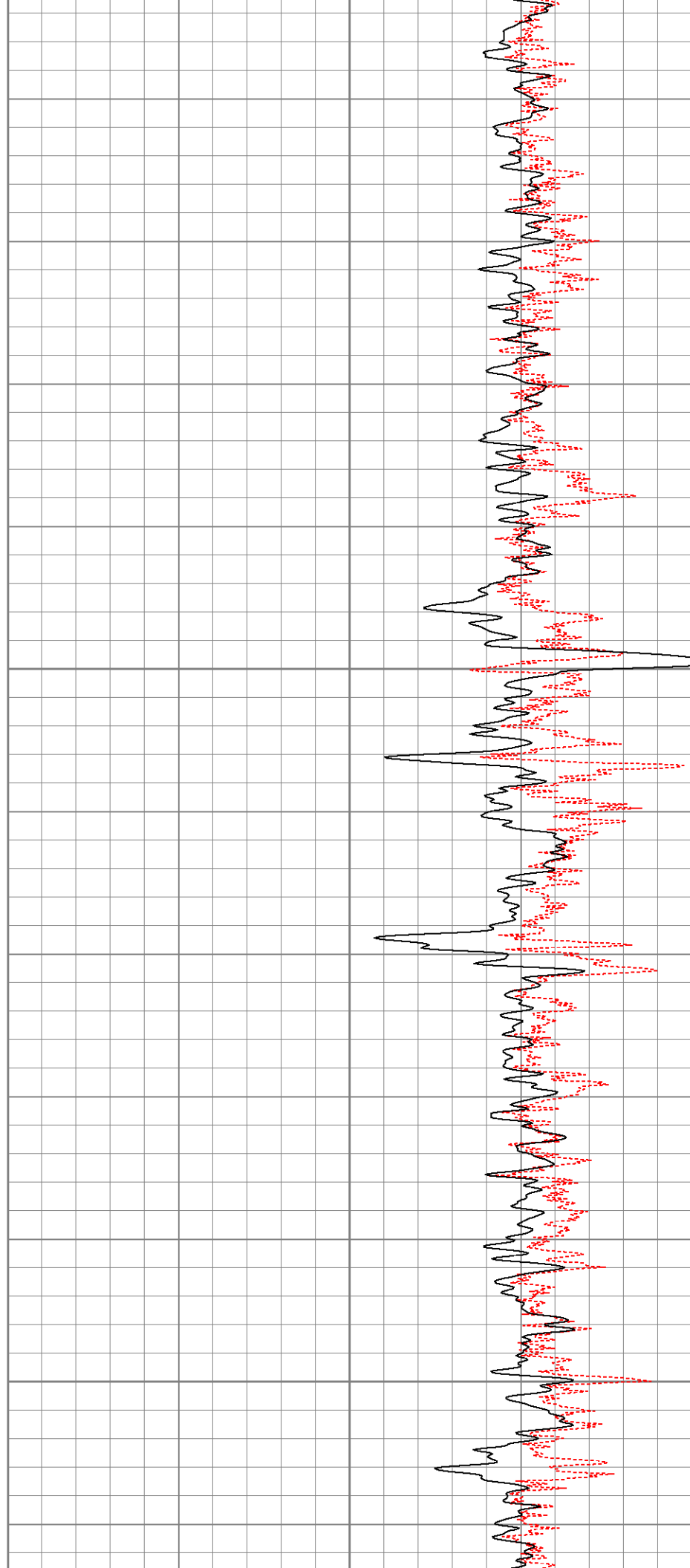
650

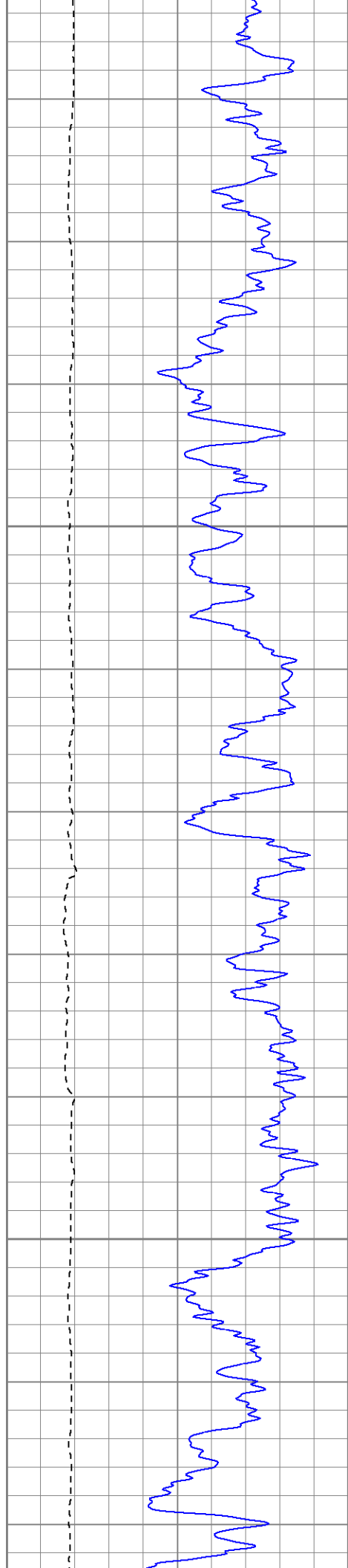




700

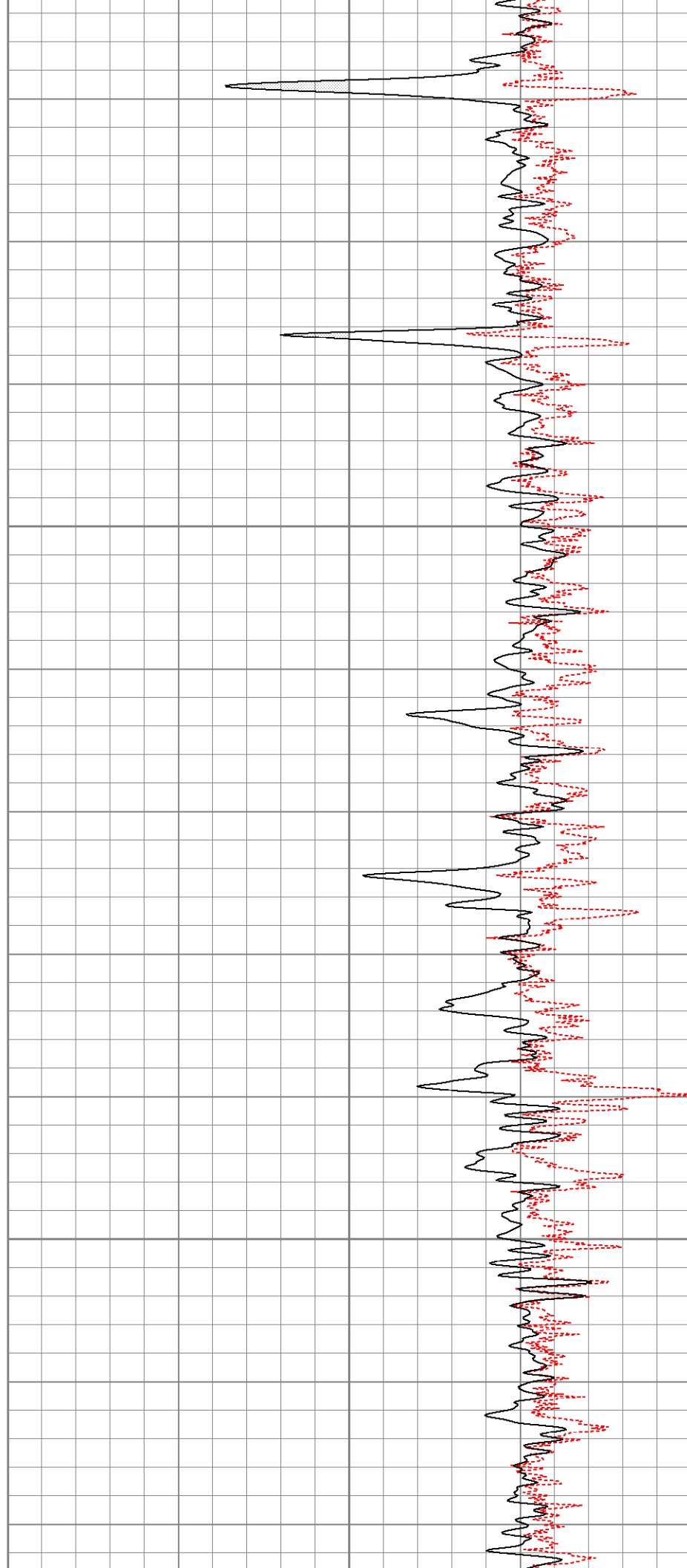
750

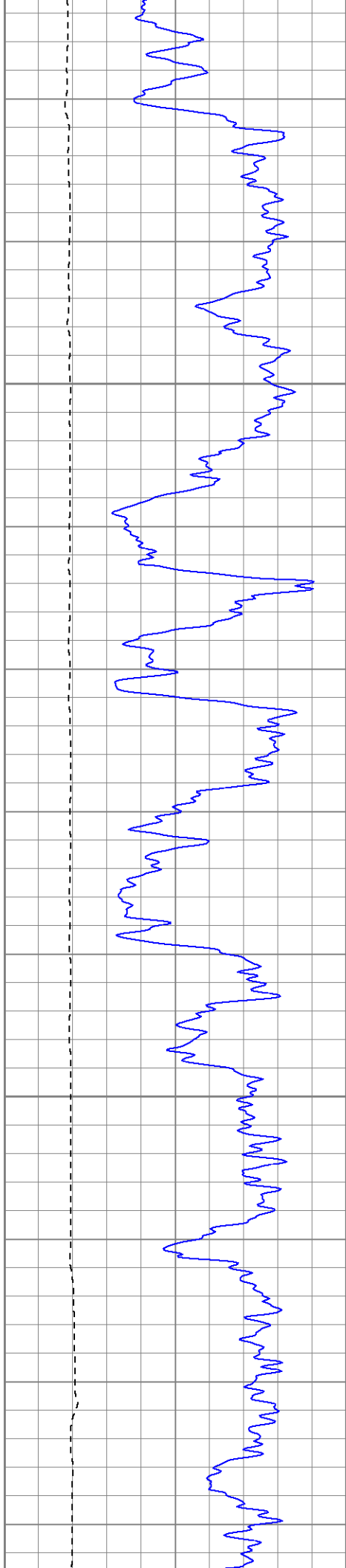




800

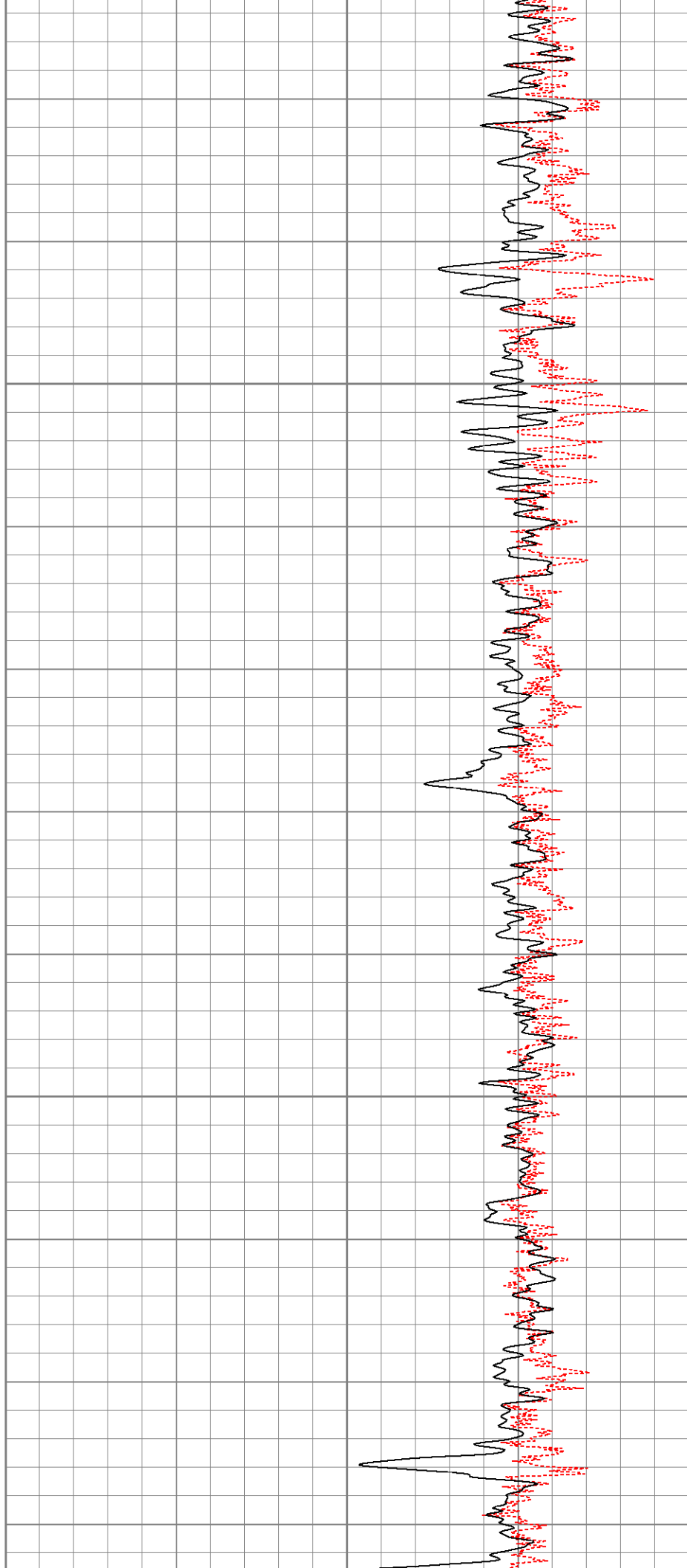
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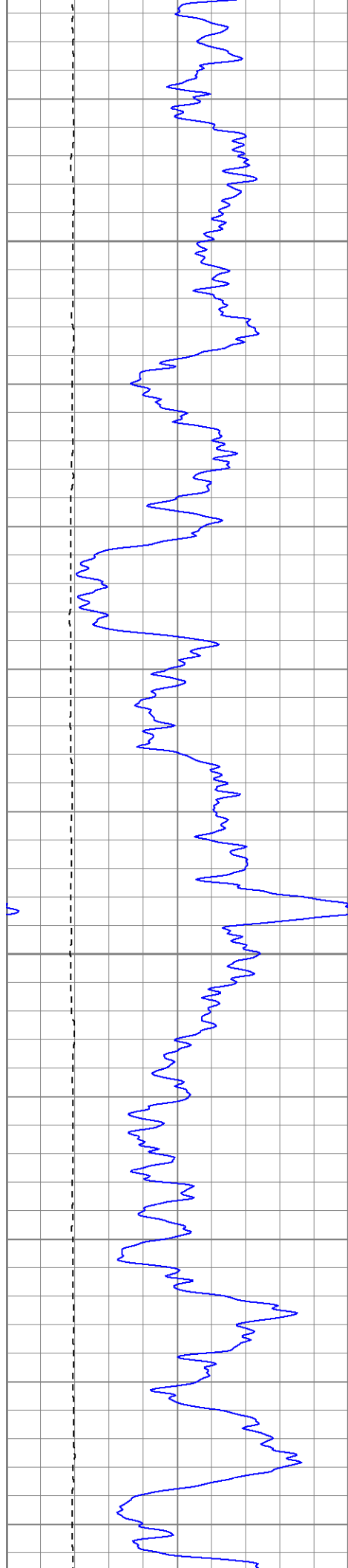




900

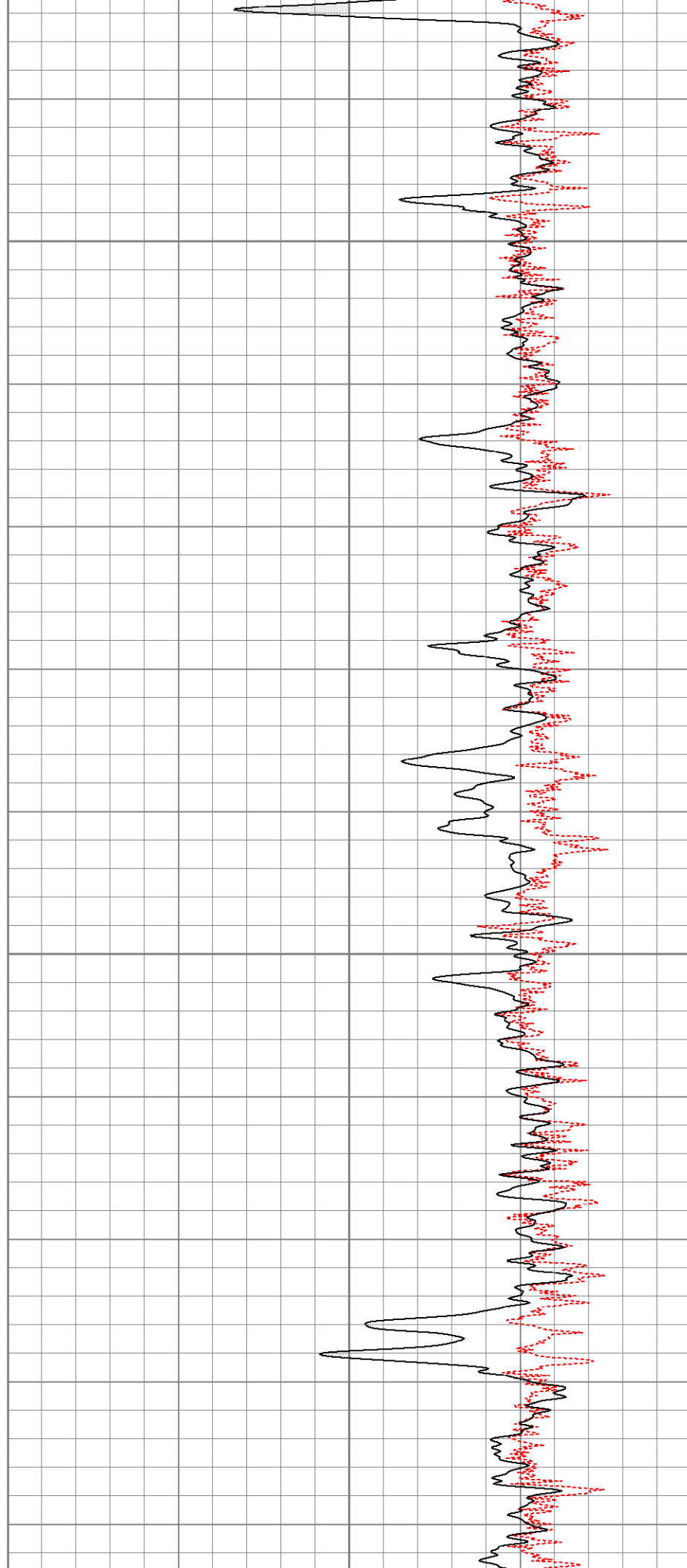
950

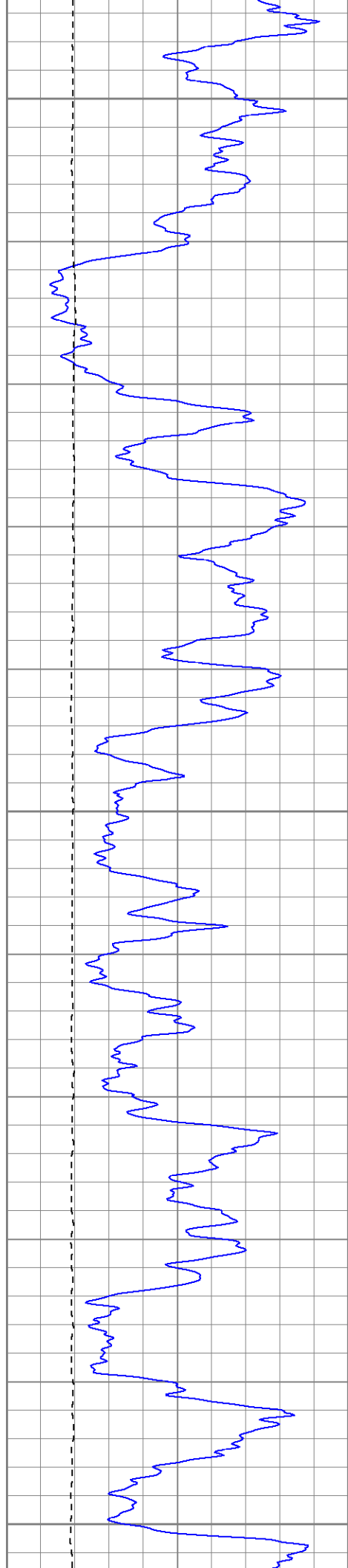




1000

1050

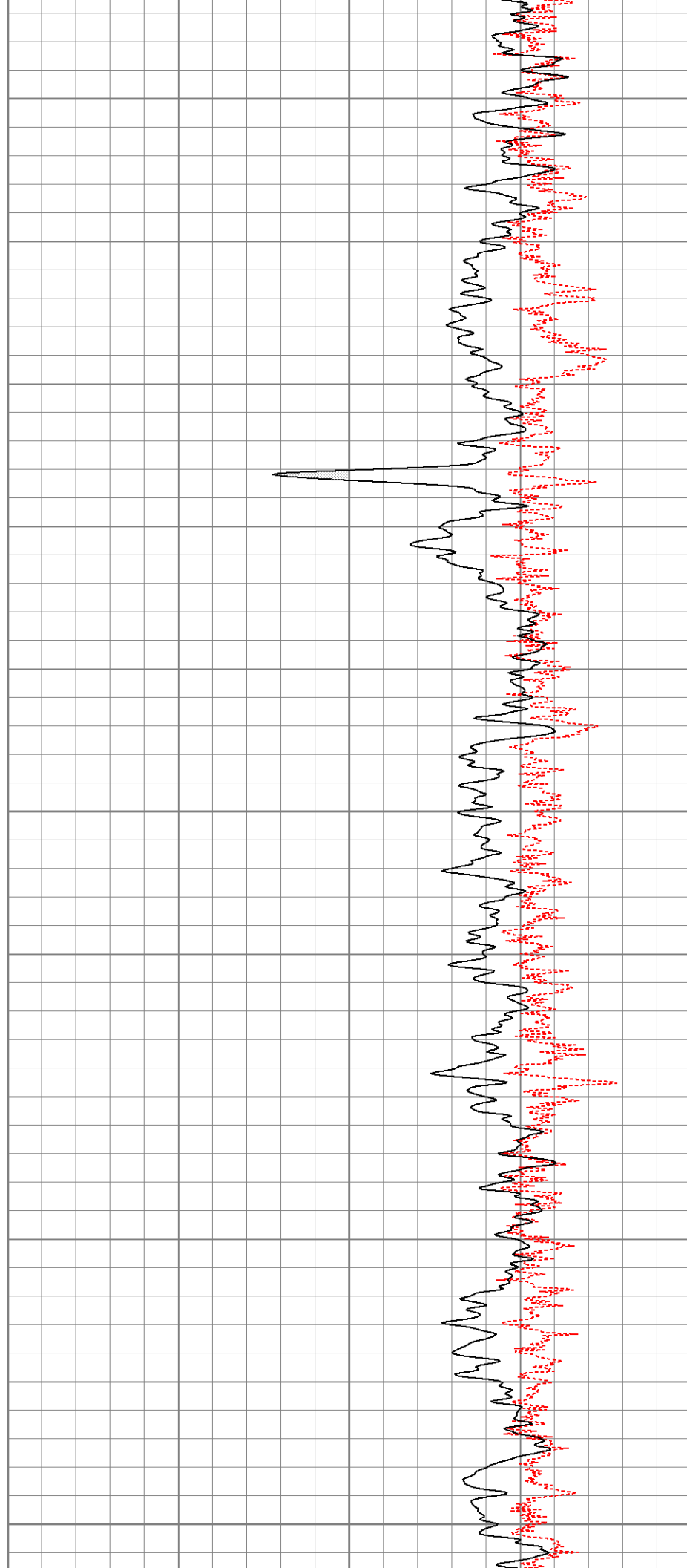


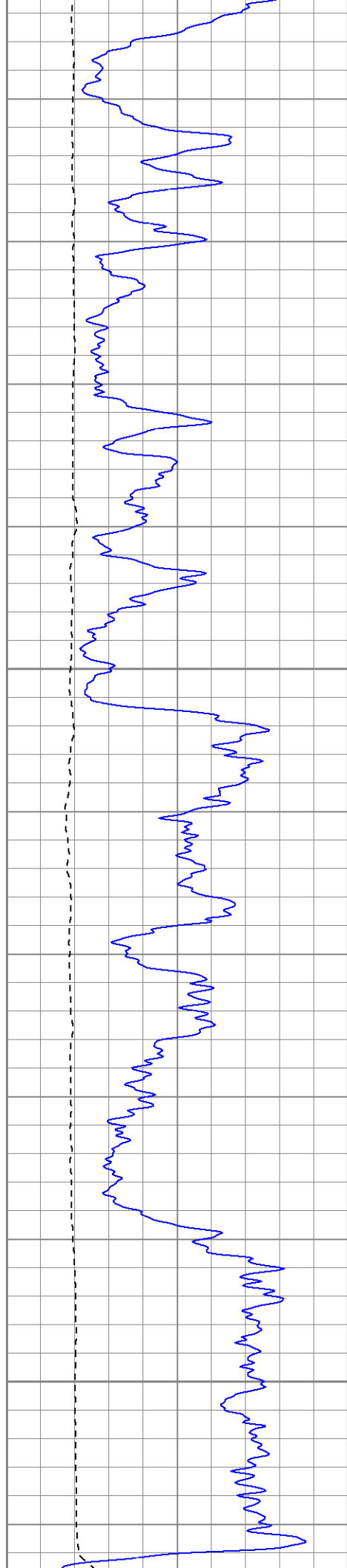


1100

1150

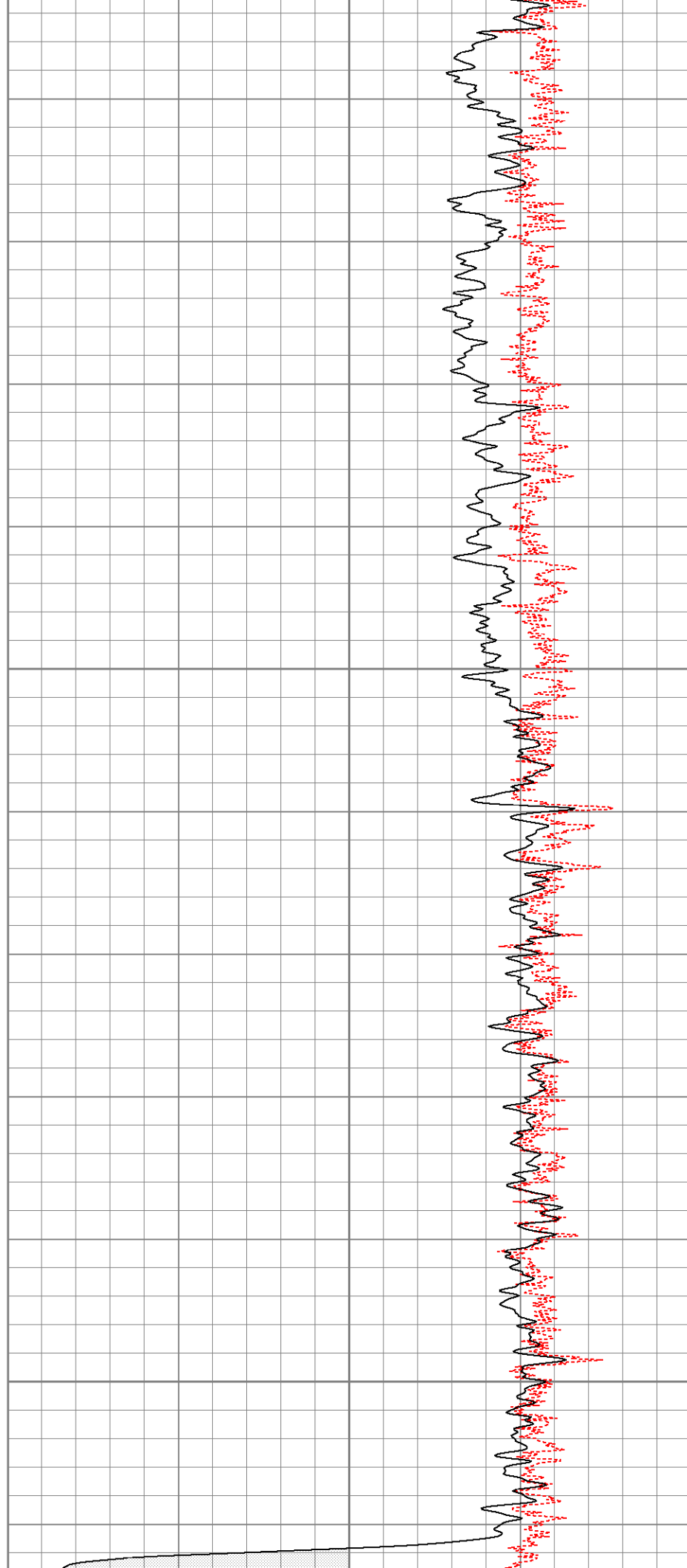
1200



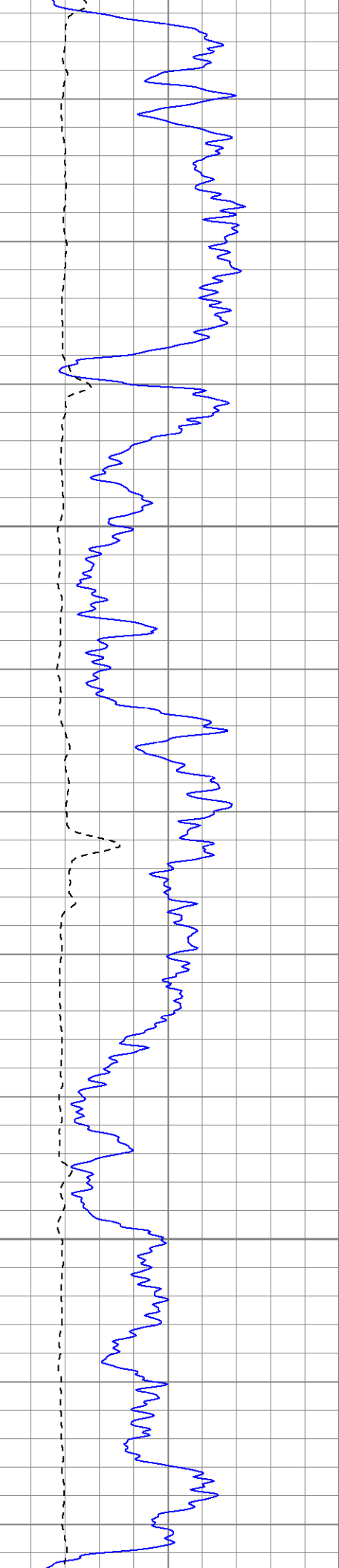


1250

1300

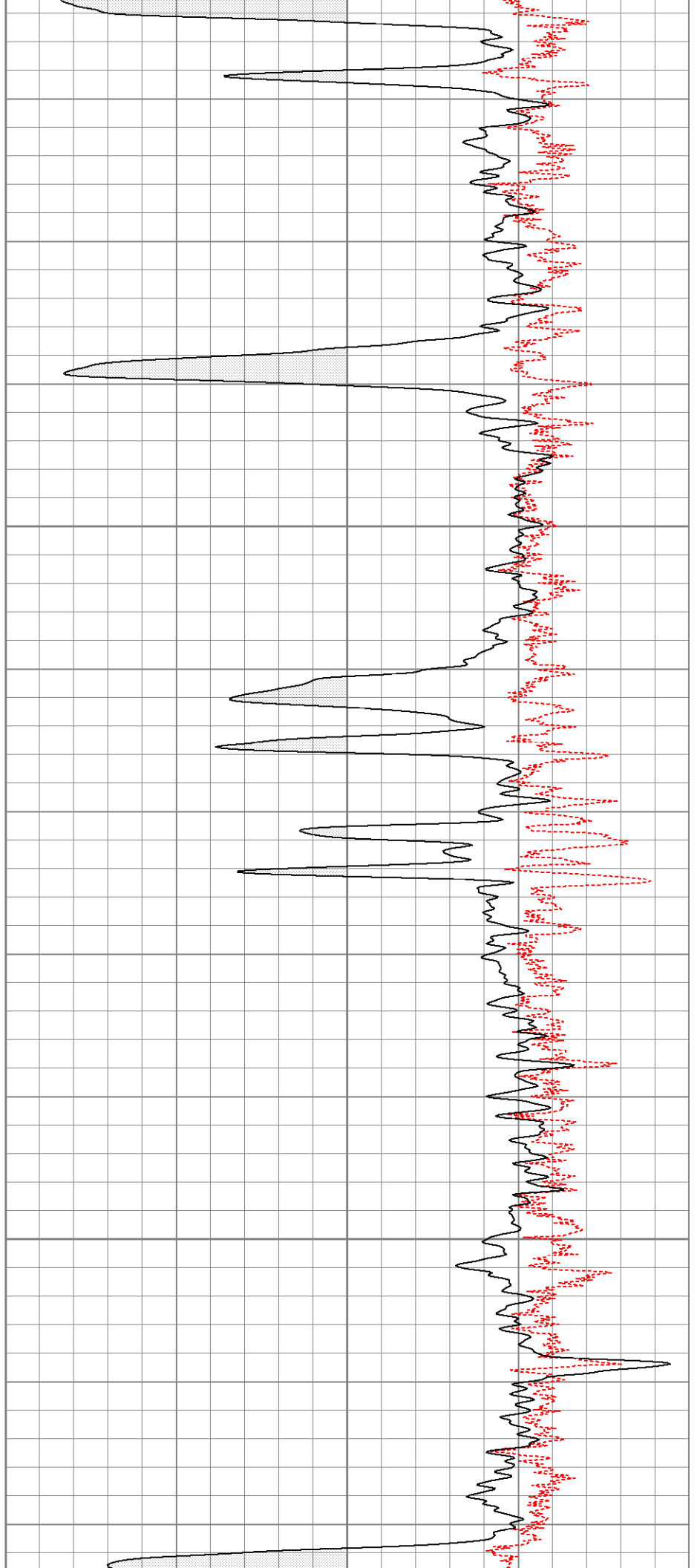


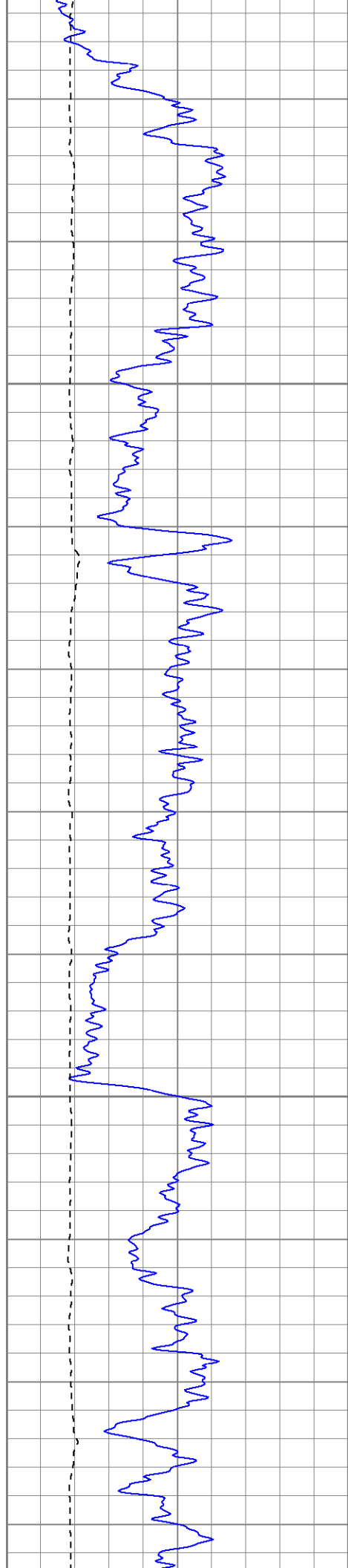




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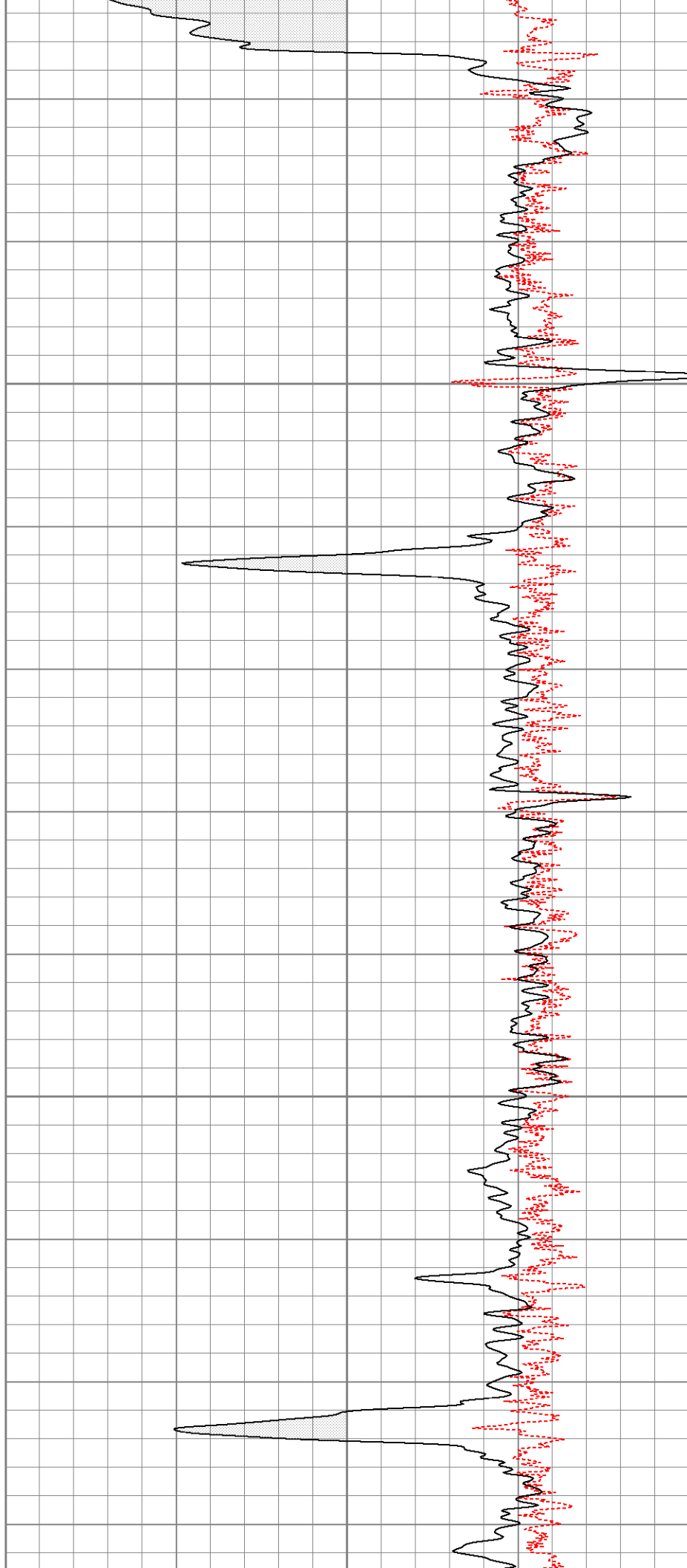
1400





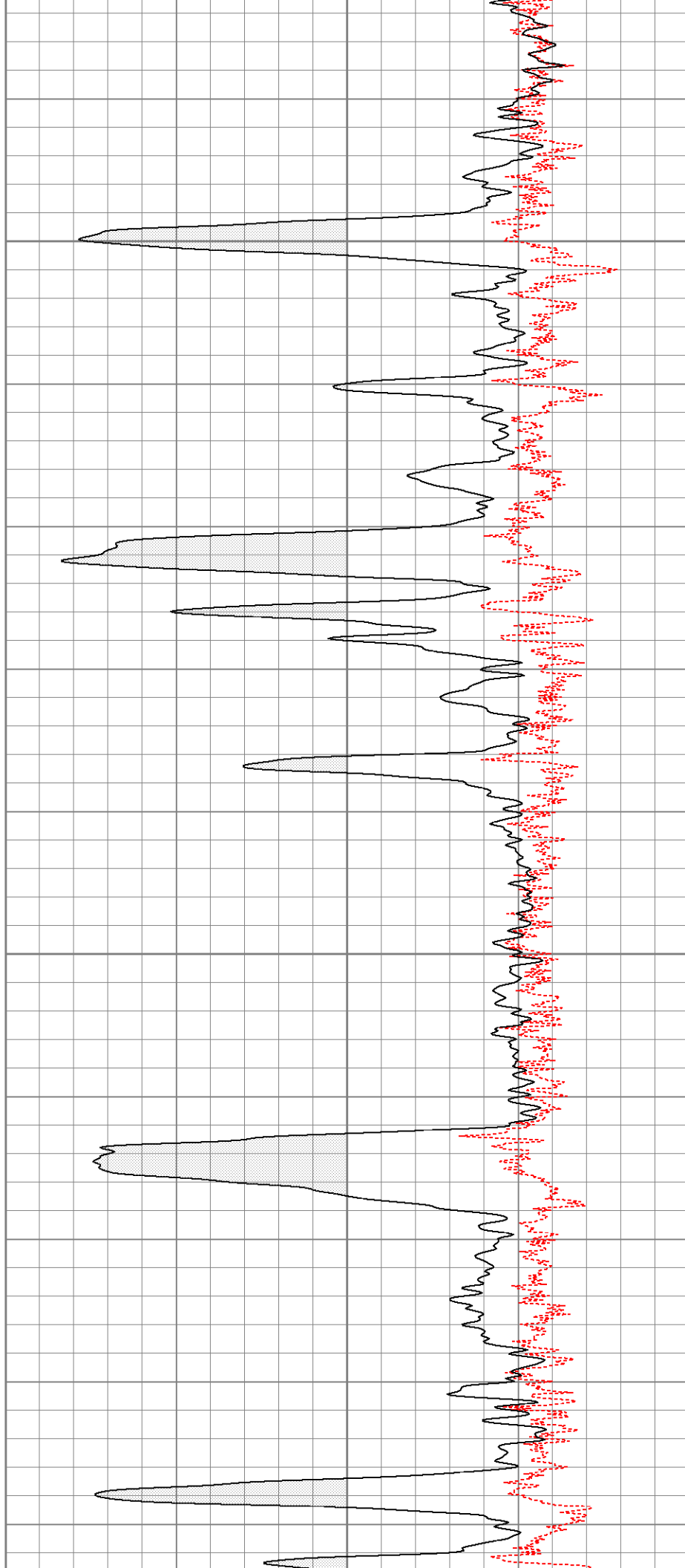
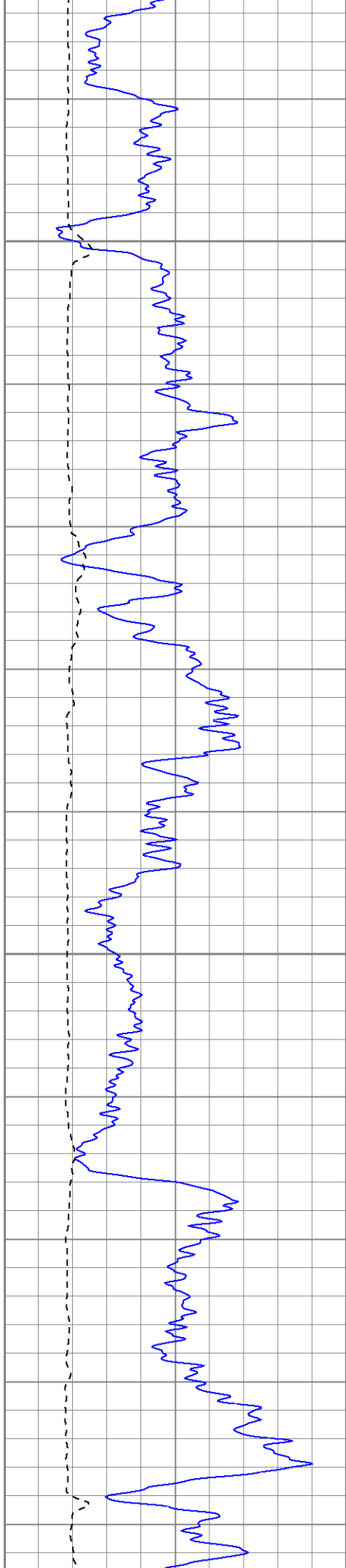
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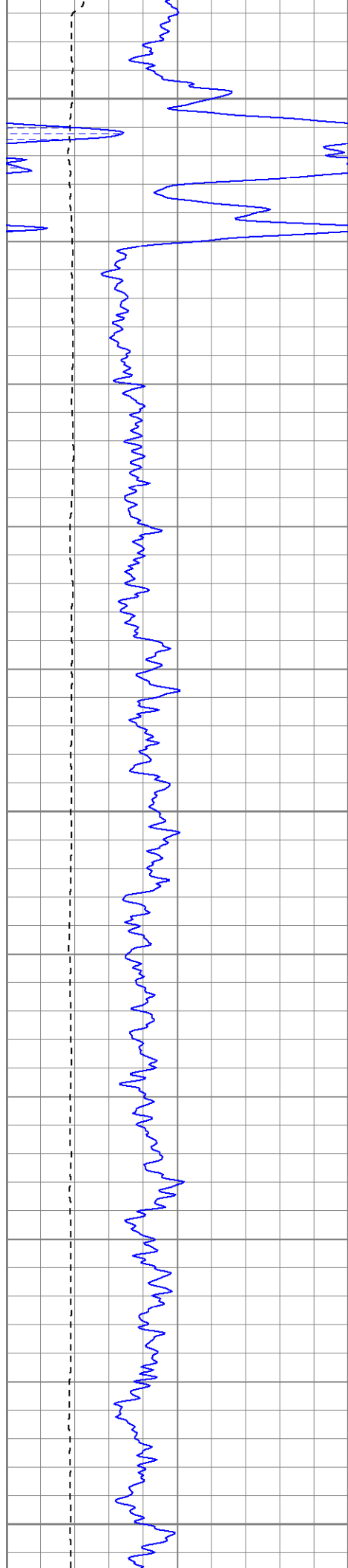
1500



1550

1600

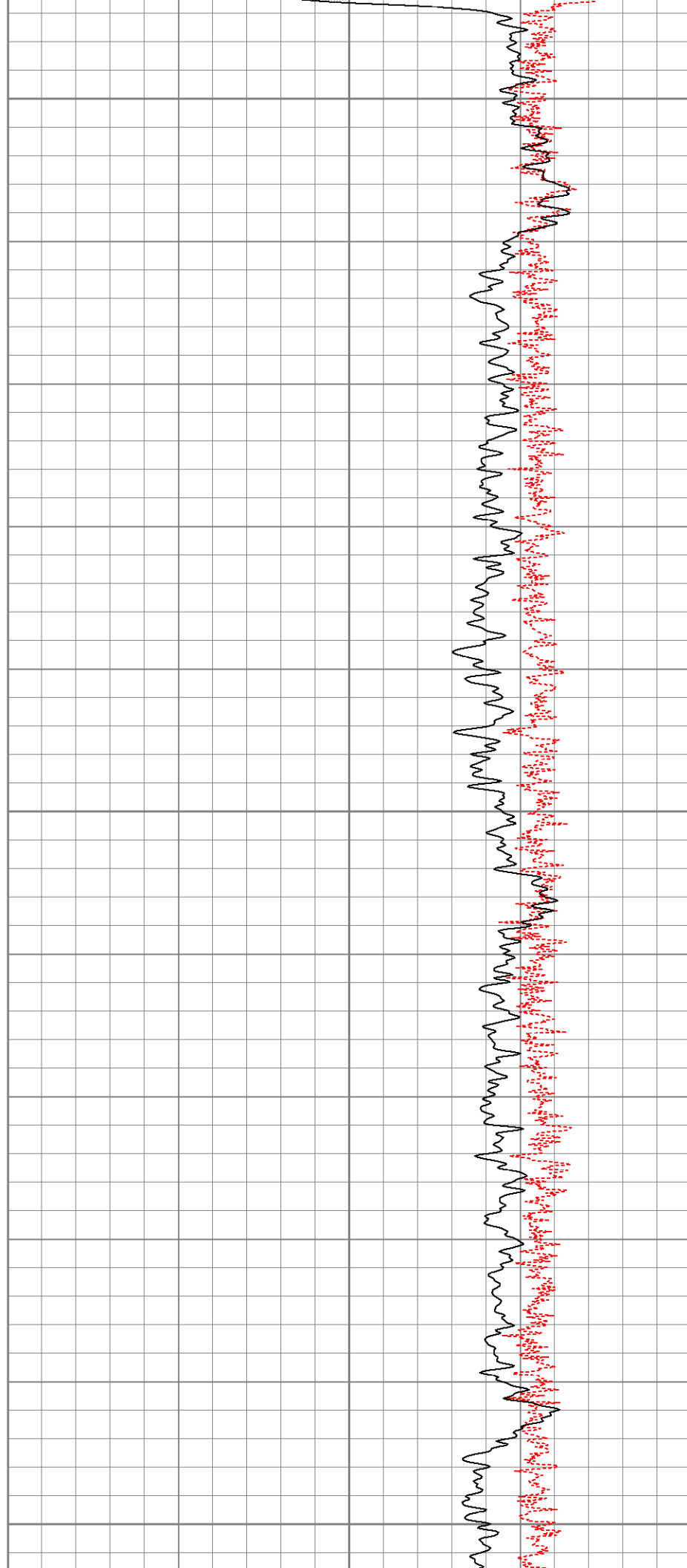


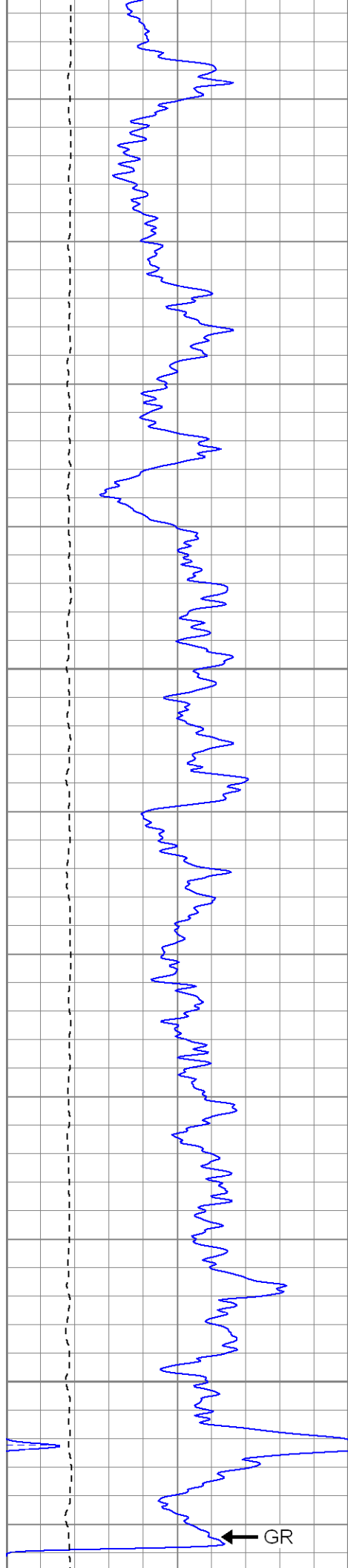


1650

1700

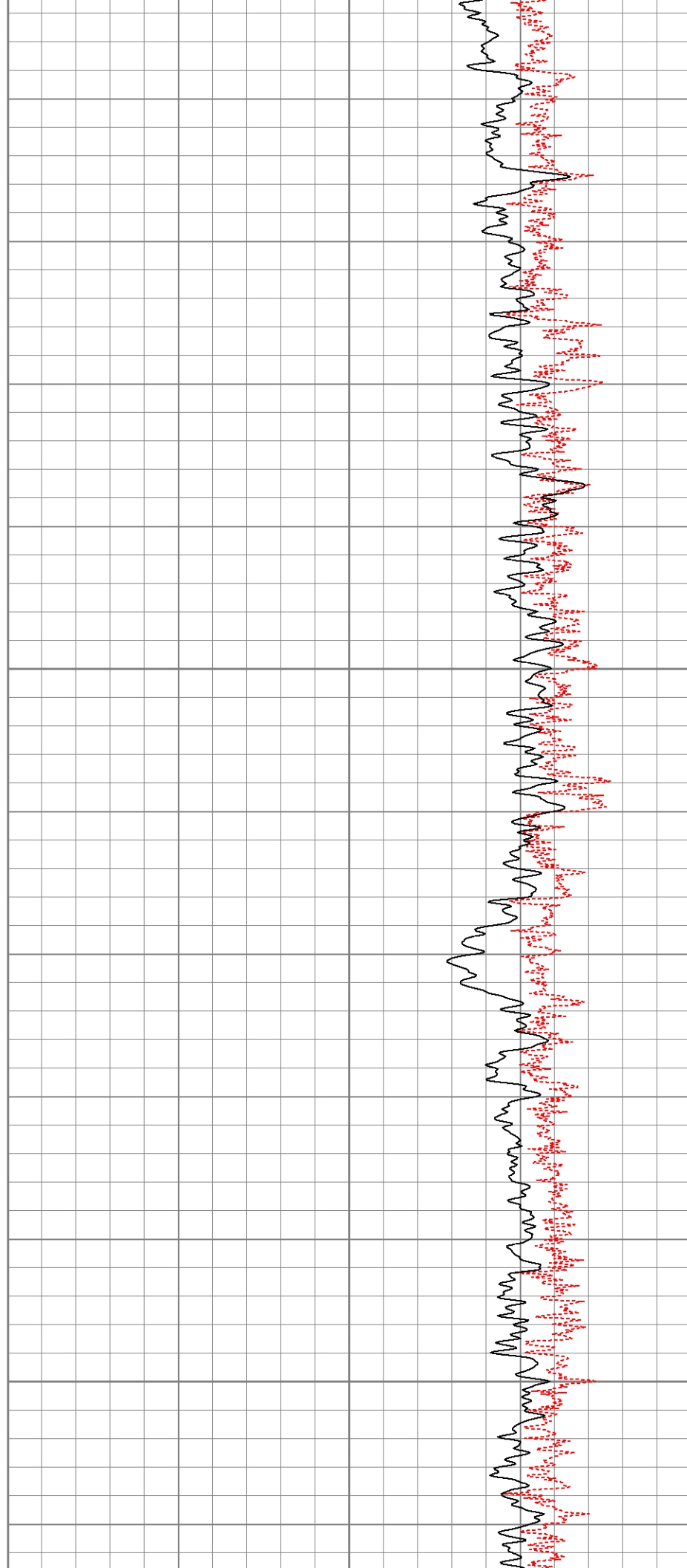
1750





1800

1850








	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		665.94	685.05	cps
Aluminum	2.590	g/cc		149.68	463.33	cps
Spine Angle = 75.32			Density/Spine Ratio = 0.570			
	Size			Reading		
Small Ring	7.85	in		4.20	V	
Large Ring	14.00	in		9.25	V	


## Gamma Ray Calibration Report

Serial Number: 2001  
 Tool Model: OH  
 Performed: Tue Jul 10 07:42:35 2007  
  
 Calibrator Value: 1.0 GAPI  
  
 Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps  
  
 Sensitivity: 0.2500 GAPI/cps

## Neutron Calibration Report

Serial Number: 5145  
 Tool Model: G  
 Performed: Sat Jul 21 07:01:21 2007  
  
 Calibrator Value: 1200 NAPI  
  
 Calibrator Reading: 1700 cps  
  
 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.19		None	0.75	1.50	5.00
			NEU-G (5145) Gearhart Epithermal	5.75	3.50	85.00
GR	31.62		GR-OH (2001) SIE	3.50	3.25	40.00
LSD	23.45		CDL-poilex (2118)	8.79	4.00	275.00
DCAL	23.04					
SSD	22.91					

CILD SP	10.60 10.60		DIL-G (5375) Gearhart	20.83	4.00	345.00
CILM	6.89					
RLL3	1.70					
Dataset: xtoge3003.db: field/well/run1/pass2 Total Length: 39.62 ft Total Weight: 750.00 lb O.D. 4.00 in						